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OM nucleic - nucleic search, using sw model

Run on: July 21, 2005, 23:19:08 ; Search time 479 Seconds
(without alignments)
10664.835 Million cell updates/sec

Title: US-10-088-384A-27

Perfect score: 3122
Sequence: 1 ttcataatcgcactctc.....atgagatagccttgaagca 3122

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405566

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued Patents NA: *
1: /cgn2_6/prodata/1/ina/5A_COMB.seq: *
2: /cgn2_6/prodata/1/ina/5B_COMB.seq: *
3: /cgn2_6/prodata/1/ina/5A_COMB.seq: *
4: /cgn2_6/prodata/1/ina/5B_COMB.seq: *
5: /cgn2_6/prodata/1/ina/5A_COMB.seq: *
6: /cgn2_6/prodata/1/ina/5B_COMB.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	751.6	24.1	1857	3	US-09-322-478-24
2	751.6	24.1	1857	4	US-09-586-106D-24
3	90	2.9	7218	1	US-08-232-463-14
4	63.8	2.0	1166	3	US-09-072-596-323
5	63.8	2.0	1166	4	US-09-072-967-328
6	63.8	2.0	7218	1	US-08-232-463-14
7	59.8	1.9	37155	4	US-09-949-016-16945
8	55	1.8	53526	3	US-08-658-136-2
9	55	1.8	53577	3	US-08-658-136-1
10	51.4	1.6	76767	4	US-09-949-016-12147
11	51.4	1.6	76767	4	US-09-949-016-17361
12	50.6	1.6	18955	4	US-09-949-016-13343
13	50.6	1.6	30678	4	US-09-949-016-12818
14	49.8	1.6	234884	4	US-09-949-016-16420
15	48.6	1.6	86414	4	US-09-949-016-12345
16	48.6	1.6	86414	4	US-09-949-016-15758
17	47.4	1.5	390890	4	US-09-949-016-14720
18	47	1.5	601	4	US-09-949-016-135107
19	47	1.5	117807	4	US-09-949-016-15525
20	47	1.5	119032	4	US-09-949-016-12160
21	47	1.5	119032	4	US-09-949-016-17368
22	46.8	1.5	247781	4	US-09-949-016-14193
23	45.4	1.5	67002	4	US-09-949-016-16803
24	45	1.4	9293	4	US-09-949-016-16801
25	44.4	1.4	81384	4	US-09-949-016-12422
26	44	1.4	462589	4	US-09-949-016-12900
27	44	1.4	476044	4	US-09-949-016-12412

28	43.6	1.4	19438	4	US-09-949-016-12699	Sequence 12699, A
29	43.6	1.4	46823	4	US-09-949-016-12723	Sequence 12723, A
30	43.6	1.4	46940	4	US-09-949-016-16252	Sequence 16252, A
31	42.8	1.4	15252	4	US-09-949-016-13584	Sequence 13584, A
32	42.6	1.4	318	3	US-09-165-264-12	Sequence 12, Appl
33	42.4	1.4	27687	4	US-09-949-016-13840	Sequence 13840, A
34	41.8	1.3	68580	4	US-09-949-016-15844	Sequence 15844, A
35	41.6	1.3	32207	2	US-08-770-379-20	Sequence 20, Appl
36	41.6	1.3	32207	3	US-08-757-669A-20	Sequence 20, Appl
37	41.6	1.3	32307	3	US-09-230-371A-20	Sequence 20, Appl
38	41.4	1.3	16924	4	US-09-949-016-13720	Sequence 13720, A
39	41.4	1.3	114139	4	US-09-949-016-16536	Sequence 16536, A
40	41	1.3	42053	4	US-09-949-016-15924	Sequence 15924, A
41	41	1.3	85675	4	US-09-949-016-12333	Sequence 12333, A
42	41	1.3	85675	4	US-09-949-016-15956	Sequence 15956, A
43	40.8	1.3	43414	4	US-09-949-016-12839	Sequence 12839, A
44	40.8	1.3	43415	4	US-09-949-016-16491	Sequence 16491, A
45	40.8	1.3	109690	4	US-09-949-016-13525	Sequence 13525, A

ALIGNMENTS

RESULT 1	US-09-322-478-24	Sequence 24, Application US/09322478
Patent No. 6131652		
GENERAL INFORMATION:		
APPLICANT: Wright, David A.		
APPLICANT: Voytas, Daniel F.		
TITLE OF INVENTION: Plant Retroelements and Methods Related Thereto		
FILE REFERENCE: P-1065 ISURF Plant Retroelement		
CURRENT APPLICATION NUMBER: US/09/322,478		
CURRENT FILING DATE: 1999-05-28		
EARLIER APPLICATION NUMBER: 60/087125		
EARLIER FILING DATE: 1998-05-29		
NUMBER OF SEQ ID NOS: 41		
SOFTWARE: PatentIn Ver. 2.0		
SEQ ID NO 24		
LENGTH: 1857		
TYPE: DNA		
ORGANISM: Arabidopsis thaliana		
US-09-322-478-24		
Query Match	24.1%;	Score 751.6; DB 3; Length 1857;
Best Local Similarity	65.3%;	Pred. No. 3.4e-217;
Matches 1250; Conservative	0; Mismatches 564; Indels 100; Gaps 6;	
QY	898 ATGAGTAATTAAGTGAAGAAATCTCTATGACCCCTGATTAATATGATGAAGTAAAG	957
DB	1 ATGAGCAATTAACATGAGCACTTTCTTGTGATCTGACTACACATGATGAGACAGAA	60
QY	958 TCTGTCACATGACCGAGTGAAGCAATGTTTACAGAGCTATAGGATGAATTT	1017
DB	61 TGTATCTTCAAGGCAAGAGAGAAAGAGAAATGAAAGTTGAG-----	110
QY	1018 GAAGCTCTGACCTGACGTATCAAGAAAGCTGAATATGCTTGAAGAAAGAGGCG	1077
DB	111 -----AAGAAAGCTGAATATGCTTGAAGAAAGAGGCG	144
QY	1078 ATGTCAGTATGATGAGTGAATGATGATGATGATGATGATGATGATGATGATGATG	1137
DB	145 ATGAGAGAGAGTATGAGCTTTATGACGAAGATCTGAGAGAGAGTACATGCTGAAC	204
QY	1138 TGGCGAGAGAGAGAGAGAGTGAAGCAATCGAGAGGTTACATGAGAGAGTATATC	1197
DB	205 ACTCGAGAGTACCAACCTTCTGCAAGCCGACATATTCCTGCTGAGAAATATGTT	264
QY	1198 AGATTCTTGAATGAATATCTTCTGGAAGAGAGTATCCCTGATATGACTTATGCC	1257
DB	265 AGCTTTTAACTGATATGATGATGATGATGATGATGATGATGATGATGATGATGATG	324
QY	1258 CAGTTGGGTTACTGAGAGAGCGTACATCTGTTGAGAGAGTATCATCTG-----	1308

1138 TGGCCGAAGAGACGAGTCTAGTGAACAATCCGACGAGTTACAGTGGAGAGTATATC 1197
 205 ACTCCGAGAGCTACCAAACTTCTGCAACAAGCCGACATATGCTCTGCTAGAGAAATGTT 264
 1198 AGATCTTGTAGATGATGATCTTGGGGAACGAGGTATCCGTATATGACATTTAGCC 1257
 265 AGGCTTTTCAAGCTGAATGATGTTCTGTAGACAGAGGTATCTTGTCTGACCTCACTTGA 324
 1258 CAGTTGGGTTACTGGAAGAGCTGACAGCATCTGTTGAGAAAGTGTATCTG----- 1308
 335 CAAGCTGAGATGTTGAGAGATGTTGACGACCTGTACCAAGTGTCTGACACTTTTG 384
 1309 -----ATAAGAGAGAGCAATGAGTTTCTTCCACACTGCA 1346
 385 ATGGCTTATCCGTATGTAGCATATGAGATGAGACATACAACTTCTTCCACACTGCA 444
 1347 GTGGAATGTATGAGGAGTCAACAGCTTGTAGCTGATATCCATGAGGTTAGGCTTTTG 1406
 445 GTAGAGCTCTACCAAGTATGACCTGTATGAGTTGATTTGAGAGATTTGGGATTTCTTG 504
 1407 AGCTTCTTAGTGAATGACAGCGGTACAGATTTAGATCAAGAAATTTGAAAGACTGTT 1466
 505 CGATTTTCTGTATGTCATGATGATGATGATGATGATGATGATGATGATGATGATGAT 564
 1467 GGTTCCTTGTAGGAG 1526
 565 GATTTTCCAGTGAAG 624
 1527 TGGGCTACTATTTGGGAAACAATCTACCGCTAACTCGACGCGTCCAGAGAGAGAGAG 1586
 625 TGGATCACATCGGAGCTCTGATCCGTTGAATGCTTCCAGGTCGAAAGAGAGATGAGAT 684
 1587 CGGAGTCTGTGATTCGCTACTTTTGAAGCGCTCGGTTGCCAATGTTTTTACTCCAGGAG 1646
 685 CGCAGCCCTGTATCAGGATCTTCCAGCGTTCTGTAGCAAGTACTTACTCCAGAGAG 744
 1647 TCTACAGGACCGTGTCTTACACAGACATGAGATGATGATGATGATGATGATGATGAT 1706
 745 ATTACAGGACGTGTCTTACCTGTATGAGATGATGATGATGATGATGATGATGATGAT 804
 1707 CTCGCGCTTACAAAGAGAGAGATGCTGTAGAGAGATCTTACAGACTCACACAGATG 1766
 805 CTCGCGCAAACTTAAATATGAGCATGTCCTCCAGGAGAGATGATGATGATGATGATGAT 864
 1767 ATGCTCTGTGATCATCTGTGTGGATCATGAATGGGCGCTGCAAAAGCGCAAGAG 1826
 865 ATACTTCTTCTGATCATCTGTGTGGATCAAAAATGGGCGGTGAGCAATTAACGCAAG 924
 1827 AAGGTAAAGAGACATATGCGTGGGCGCTGTGTGACCGCAATTTGAAAGTTGTGCA 1886
 925 AAGAGACGAGGCGCTGTGTGCAATGAGTGGCGGTGACACTTATCTGTATGATCTGTG 984
 1887 GTTCGCGTCAAGAGATGAGTGTAGACCGAGATGATGATGATGATGATGATGATGATGAT 1946
 985 GTTCCACTTATTTCTGCTGATCTGAGCACTGAGCCAGAGCAATGATGATGATGATGATGAT 1044
 1947 TGTGAGTTCTGAGATTTGACATGTTGCGCATTTTCAACGCTACAGGTTGACAGATTTGA 2006
 1045 TCCCAATTCCTGAGATTTGACATGTTGCGATTTTCAAGGTTGAGTTGAGCACTCT 1104
 2007 TCGATTTAGATGCCCAACTTTTCTTCCCTGATTTAGCTTCTAGATTTCTGAGGCG 2066
 1105 AAGAGACGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1164
 2067 AAGAGATTTGATTTCAAGCTGCGCTGTAAGATCTTATTTTCAAGGAGAGTCCGCAACT 2126
 1165 GATTAACATTTTATTTGAGCTGAGATTTGAGCGCTTCTACTATGAGAACCTTCAACATTA 1224
 2127 GAGAGATTTAGTCAACCGAGAGAGTACAAATGAGATGTTGATGAGCATATGATATTA 2186
 1225 GATGAGAGCATCTTCTTGAAGAAAGCT-----GCTTCGAGTGGATGATGATGAT 1275

2187 GATGAGCGGAGTTTGAACAGAGATGATGATGATGATGATGATGATGATGATGATGATGAT 2246
 1276 GAGAGATTAAGTTGACATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1335
 2247 AAAAGCAAGATTTTGAAGAGAGTCAACAGAAACAAGAGAGTGTGAGAGAGTGTGAGAG 2306
 1336 CAGAGCAAGAGCTTACATGAGAGTCAATGAGATTAAGATTAAGATTAAGATTAAGATTAAG 1395
 2307 AAAAGCAAGATTTTGAAGAGAGTCAACAGAAACAAGAGAGTGTGAGAGAGTGTGAGAG 2366
 1396 AAGAGAGAGAGTGTGAGAGAGTGTGAGAGAGTGTGAGAGAGTGTGAGAGAGTGTGAGAG 1446
 2367 AGCTGCTCTCTTCCATCACTTACATGATGATGATGATGATGATGATGATGATGATGATGAT 2426
 1447 AGTTCCTCTCTTCCATCACTTACATGATGATGATGATGATGATGATGATGATGATGATGAT 1506
 2427 AAGAGATTAAG 2474
 1507 AAGAGATTAAG 1566
 2475 CCGGAGAGAGATTTTGAAGAGAGTGTGAGAGAGTGTGAGAGAGTGTGAGAGAGTGTGAGAG 2534
 1567 CAGGCTGAGATTTTGAAGAGAGTGTGAGAGAGTGTGAGAGAGTGTGAGAGAGTGTGAGAG 1626
 2535 ACTGATCTAG 2594
 1627 ACTGATCTAG 1683
 2595 GCTGCGCGCAATTAAG 2654
 1684 GCTGCGCGCAATTAAG 1743
 2655 GCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2714
 1744 GCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1803
 2715 GCTTGGAGAGATTAAG 2768
 1804 GCTTGGAGAGATTAAG 1857

RESULT 3
 US-08-232-463-14
 ; Sequence 14, Application US/08232463
 ; Patent No. 5670367
 ; GENERAL INFORMATION:
 ; APPLICANT: DORNER, F.
 ; APPLICANT: SCHEIFLINGER, F.
 ; APPLICANT: FALKNER, F. G.
 ; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
 ; NUMBER OF SEQUENCES: 52
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Foley & Lardner
 ; STREET: 1800 Diagonal Road, Suite 500
 ; CITY: Alexandria
 ; STATE: VA
 ; COUNTRY: USA
 ; ZIP: 22313-0299
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/232,463
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/935,313
 ; FILING DATE:
 ; APPLICATION NUMBER: EP 91 114 300.6
 ; FILING DATE: 26-AUG-1991
 ; ATTORNEY/AGENT INFORMATION:

NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 30472/114 IMMUN
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-9300
TELEFAX: (703) 683-4109
TELEX: 899149
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 7218 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: pTZapT-Fls
US-08-232-463-14

Query Match 2.9%, Score 90; DB 1; Length 7218;
Best Local Similarity 4.5%; Pred. No. 1.4e-15;
Matches 18; Conservative 253; Mismatches 133; Indels 0; Gaps 0;

50 AAGCCGATCGCTTCCCTCACAACCTCTCACTCGACACGCGCTCTCTCACTTACT 109
1053 AGGAGCTTGGATATTT 1112

110 CGGCTTATCGCTCTCACTCGCATCTCTCACTACTGACCTCGCATATCACTCGAGC 169
1113 TT 1172

170 TCGCGCTTTCACGCGCTCTCAGCTGTCACGCGCTCTCTCTCAAGAAACAAC 229
1173 TT 1232

230 TCGAGCTCTCATTTCACTCACTCGACTCTACACGCGCTTCACTCTAGC 289
1233 TT 1292

290 TCTTAACACTCGACACCTTCAACATCAACCAATCAATGTTTCTCTCAATTAAG 349
1293 TT 1352

350 CTGACATACGACGCGTGAACACTTACACTCAAGCTCTCACTCTTCACTGTT 409
1353 TT 1412

410 CCAACACGCTGCTCTCACTCCCAAGGCTTCACTCACT 453
1413 TT 1456

RESULT 4
US-09-072-596-323
Sequence 323, Application US/09072596
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skelky, Yasir A.W.
APPLICANT: Dillon, David C.
APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED AND BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 323:
SEQUENCE CHARACTERISTICS:
LENGTH: 1166 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
US-09-072-596-323

Query Match 2.0%, Score 63.8; DB 3; Length 1166;
Best Local Similarity 26.7%; Pred. No. 3.2e-08;
Matches 190; Conservative 136; Mismatches 384; Indels 1; Gaps 1;

2 TCATATATGACCTCTTCTCTATTTCTGATTCGAAAGACAAACACGCGCATTC 61
373 KSAAMTSMKMGSTSYCTMYCANNGASTAMTYNNCCCCGMAWCKSMAWCCCTGCA 432

62 CTTCCTCCCAACACTCTCACTCGACACGCGCGCTCTCACTTACTCGGCTTATCGC 121
433 TYCCMCGSSGXYCTCAGNCCACCTGNGYCCCTCGMRTYCAITCMATCCGCTGCC 492

122 TCTCATGCGATCTCTCAACTCTGACCTCGCGATATCACTCGAGCTGCGGCTTTC 181
493 TMTMMNCCSGNCRVCTCAMGCTKSGKACANATMYCASAAGHTCTMYGSCAKMT 552

182 ACCGCTCTCATGCTGACGCGCGCTCTCTCTCAAGAAACAACACTCGAGCTTCCA 241
553 TCCCTCTCCTCTTNNCCMCMCSCTTMTCAACTCCCGGCKNOMYCTCTCKCAV 612

242 TTTCACTCACTCGACTCTCACTCAACCAAGCGGCTTCACTTACTTAAACAATC 301
613 NMAACCKTTCYCMCMYCMYCKCKAGMYKMTCCMACTCTYNTTCTCTCKKCCM 672

302 GACCACTTCAACATCAACCAATCAATGTTTCTCTCAATTAAGCTTGACTACTC 361
673 KACCKNTTCTMGSCCCCCACAYMYCAMMTTCCMTCKAKSCCCYCCNNYCMNM 732

362 GACCGCTGAACACTTATCACTCAAGCTCTCACTCTTATGTTTCAACACCGCTG 421
733 CWCMTCTMNAKCANCTTCTCTCTCMMTTNAKCMCNNTNCCSGAGCTTCTAC 792

422 CTTCATCCCCCAAGAAAGTTGATCACTCACTCACTCACTCACTCACTCACTCA 481
793 TKMKCKNTTCTCTTCKCTTMCCTTMCNTGCKMKNCCCTCGMTCTCKTCTCKNMR 852

482 GCAACCAACTCGACCTGCTCTCTTGGCACTGATGATGCACTGATCTCTTCAACA 540
853 YVAKCAKCMCTCCCAKMKAKCTKCTCCCCAMKMSAGCKCCCMCCCTCTATCMC 912

541 TCTTCACTATCTCTTCACTGACCAACGCGGCTCTGCTCTCACTTGGCAATTAAG 600
913 TCTCMCTATCTCTCTCMCTCMYKMCACCKCYAYTCNACTNNMNMCMCTCTCT 972

601 CTCACTGATTTGTAAGAGAGAGAGTGAAGCTCAACACGCGCACTCGACGCGTTC 660
973 NYCTGCAAGCTTCKCKCTCKCKNMYNCRMYTRCTCKKCCNCRCKNCKMCKTCT 1032

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Qy      661  CCCTTACACATTCAACACTCGACACCGGTGTACCATCTCCACACCCGCT  711
          |||  :  |  |||  |||  |||  :  :  :  :
Db      1033  CTCMMKMTCCCGWCCCATCTMMKSTCTCMGCMTCCCTCNKGCYNNYTKCY  1083

```

RESULT 5
HS-09-072-967-328

Sequence 328, Application US/09072967
Patent No. 6592877
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, David C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 328:
SEQUENCE CHARACTERISTICS:
LENGTH: 1166 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
US-09-072-967-328

Query Match	2.0%;	Score 63.8;	DB 4;	Length 1166;
Best Local Similarity	26.7%;	Pred. No. 3.2e-08;		
Matches 190;	Conservative 136;	Mismatches 384;	Indels 1;	Gaps 1;

Qy	2	CCATATATTCGACCGCTTCTTCATTCCTGCATCCAAAGACAAACAGCGGCATCG	61
Db	373	KSAMTSMKMGSTSYCTTTCATCNGNGASTAMTMTTMCCECGMAVCKSCMAVCCCTGTCA	4322
Qy	62	CTTTCCTCACAACCTCTCACTCGACCAACGCGCGCTCTCTCACTTACTCGGGCTTCAATCGC	1213
Db	433	TYCCMGCSGSGSYCCTCANNCCACCTGTGNGYYCCCTCCMKMTCTCAVTCMNTCCGGGTGCC	4922
Qy	122	TCTCATTCGGCAGATCTCGAACATACCTGCAGCCTGGCGATATCACTCGAGACTGCGCGTTCTC	1813
Db	493	TYTMMNCCGSCNCRVCTCAGCNCTKSGKACCACTAATTCACACKCHTCTCMCMYSCSAKMT	5522
Qy	182	ACCGCTCTTCATTCGTCACACCGCTGTCTCCCTCTCTTCGMAAGAAACAATCGAGCTCTCCA	2413
Db	553	TCCCTCCTCCTCTTNNCCAGCMCSCTCTMTTMACTCCCGCGYCKCNCTMTCTCTCKGCAY	6122

Oy	242	TTTCACTCACTCGAAGCGTTCTGACGACGAAGCGGGTTGACACCTTACTCTGTAAACAGCTC	301
Db	613	NMAACCKRTTCYCMNCYTCYMYCKCKAGATKMTCTCCMACTCTMYNTTCTCTCNKCKCM	672
Oy	302	GACCACCTTGACCATCAACCAATCAAAATCGTTTTCTCTCCATTAAGCTTGACATACTC	361
Db	673	KACCKNTTTCWCSGCCCCCAKAAVYCMYCMMTCTCMTCKRAGSCCYVCCNNYCCMMN	732
Oy	362	GAACGCGTGAACATTATCACTTCAAGCTTCAAGCTCTCATCTGTTTCCAGACGCGT	421
Db	733	CMCTTCTCYNNAKCANCNNTTCTTCTCTGMMYMTACGCMCNNTCNCKSGACCTTCTCAC	792
Oy	422	CTCTCATCCCCCAAGAAAGCTTGTCACTCACTCACTCACTCAACAGTTGACTGATTTCA	481
Db	793	TKMKCGMTCTCCTTMCCKCYMMCNMTCCMKXNCCTCCNMTCMTCKYTCTCNCKMY	852
Oy	482	GCAACGAAACTCGAAGCTCGTGTCTCTTGGCCAATCATATGTCACTGTGATCTTCTCCACCA-	540
Db	853	YAAACAKMNCCTCCCAKMKCAKCTKTCTCCCAKMSACNCKCCMCCTCTTATCWC	912
Oy	541	TCTTCATCATCTCCCTTACTGACACCGTGGCTCGTCCACTGACATTGCACTTTAAAG	600
Db	913	TCTCMTYATCTCTCTCTCMCYCMTMKRCAACNCKYATTAACATMMNNNCCANCNCTCT	972
Oy	601	CTCACTGATTTGTCAAAAGAGAAGAGTGAAGTCAACACGGCCACTGACCGCGTTT	660
Db	973	NYCTCMKAGATYCKCKCTMKCNKYNVCMNYCTTRCTCKKCCNCCBNCKMKCKTMTCT	1032
Oy	661	CCCTCTACATTTCAACACTCGACCAAGGAGTACATCTCCACACCGCGT	711
Db	1033	CTCCMMKRTCCWCCCATCTTMMNSTCTTCMCNCMTCTCCCNCKCYNTTKCY	1083

RESULT 6

US-08-232-463-14/C
Sequence 14, Application US/08232463
Patent No. 5670367
GENERAL INFORMATION:
APPLICANT: DORNER, F.
APPLICANT: SCHEIFLINGER, F.
APPLICANT: FALKNER, F. G.
TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 1800 Diagonal Road, Suite 500
CITY: Alexandria
STATE: VA
COUNTRY: USA
ZIP: 22313-0299
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/232,463
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/935,313
FILING DATE:
APPLICATION NUMBER: EP 91 114 300.6
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 30472/114 IMMU
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)836-9300
TELEFAX: (703)683-4109
TELEX: 899149

```

; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 7218 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   IMMEDIATE SOURCE:
;   CLONE: pTZapT-F1s
;   US-08-232-463-14

Query Match
Best Local Similarity 10.9%; Score 63.8; DB 1; Length 7218;
Matches 53; Conservative 226; Mismatches 208; Indels 0; Gaps 0;

QY 843 TATTACTACATATTAAAGTTTATCTTTAGTTTCGTTGTTTATAGTTTCATCATGAG 902
DB 1551 TGTGACTAGCGTAGCATCGCTTCTAGACCATCTATTCAGTTTCAAAAAACGGCATGTAG 1492
QY 903 TAACACAGTGGAAAAATCCTTATGAGACCCCTGATTTAAATGTGATGAAGCTAAGTCTCTG 962
DB 1491 GCATCATCTGTAATTAACCTATCTATGCAAGTAGTTAAAGATAGAAAGATTGTACRRR 1432
QY 963 GTCCACATAGACCGGAGTAGAGCAACATTTTACAGAGCTATAGGATGAATTGGAAG 1022
DB 1431 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1372
QY 1023 CTCTCAGCTGCACGTAATCAAGAAGAGCTGAAATCGCTAGAGGAAGGGCGATGTC 1082
DB 1371 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1312
QY 1083 GAGTGAATATGAGCTGATTTAGAGATATCAAAACTGAGTATGAGCCAGTCAATGGCG 1142
DB 1311 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1252
QY 1143 CAAGAGACGAGAGCTACTAGACAAGATCCGAGAGGTTAGAGGAGATATATGAGATT 1202
DB 1251 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1192
QY 1203 CTTTGAGATGAATGACTTCTGAGGAGACGAGTATCCCTGATATGAGACTTTAGCCCAT 1262
DB 1191 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1132
QY 1263 GGGGTTTACTGAGAGACGTCAGCATCTGTTGAGAAAGTGTCAATCTGATTAAGAGAGACA 1322
DB 1131 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1072
QY 1323 ATCGAGT 1329
DB 1071 RRRRRAT 1065

RESULT 7
US-09-949-016-16945
; Sequence 16945, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16945
; LENGTH: 37155
; TYPE: DNA
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```

; ORGANISM: Human
; US-09-949-016-16945

Query Match
Best Local Similarity 47.7%; Score 59.8; DB 4; Length 37155;
Matches 240; Conservative 0; Mismatches 257; Indels 6; Gaps 2;

QY 89 CCGCCGCTCTCTCACTTACTGAGCTTCATGCTCTCAATGCAATCTCTCAATCTCTG 148
DB 25834 CCCCCTACTCAACCCCTCAACCCCTCAACCCCTCACTCAATCCCTTACCCCTCACTCAAG 25893
QY 149 AACTGCGATATCACTGAGCTGCGGCTTCTCAACGCTCTCAATGCTGACGCTGCT 208
DB 25894 CCTTACCCCTCAACCCCTCACTCAACCCCTCACTCACTCACTCAACCCCTCACTCT 25953
QY 209 CCGCTCTCAAGGAAACATCTGAGCTCTCAATTTCACTGACCTGACCTGACCA 268
DB 25954 CACTACCCCTCACTCACTCTCAACCAACCCCTCACTCACTCACTCAACCCCTCA 26013
QY 269 GCCGCTTCAACACTTCTAGCTCTTAAACACTGACCACTTCAACCAATCAATCA 328
DB 26014 CAC---TCACCCCTCACTCTCACTCAACCCCTCACTCTCACTCACTCACTCA 26069
QY 329 TCGTTTCTCTCAATTAAGCTTGACATCTGACGCTGAACACTTATACCTTCAAG 388
DB 26070 TCTCTACATGACCTCAACCCCTCACTCACTCACTTCACTCTGCTCACTCCCTCA 26129
QY 389 CTCTCATCTCTTCACTGTTTCAACACGCTGCTCTCATCCCAAGAACTTGAT 448
DB 26130 TACCCCTCACTGCTCAATACCCCTCACTGCTCAATACCCCTCACTTTCAT 26189
QY 449 CACTCTCATCATCAACGATCACTGATTCAGCAACCAATCTGACCTGCTCTT 508
DB 26190 CAC--CCCTCACTCAACCCCTCACTTCTCACTTACCTCTCAACCCCTCACTCA 26247
QY 509 GCACTCATATGCTCATCTCTCTCTCAATCTTATCTATCTTCTTATCTGACCA 568
DB 26248 TCACCCCACTCAACCCCTCACTCACTCACTCACTCACTCACTCACTCA 26307
QY 569 GNGGCTCTGCTCAACATTCG 591
DB 26308 CCCCCTCACTCTCTCACTCACT 26330

RESULT 8
US-08-658-136-2
; Sequence 2, Application US/08658136
; Patent No. 6071717
; GENERAL INFORMATION:
; APPLICANT: KLINGER, KATHERINE W
; APPLICANT: LANDES, GREGORY M
; APPLICANT: BURN, TIMOTHY C
; APPLICANT: CONNORS, TIMOTHY D
; APPLICANT: DACKOWSKI, WILLIAM
; APPLICANT: GERMINO, GREGORY
; APPLICANT: QIAN, FENG
; TITLE OF INVENTION: POLYCYSTIC KIDNEY DISEASE GENE
; NUMBER OF SEQUENCES: 58
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENZYME CORPORATION
; STREET: ONE MOUNTAIN ROAD
; CITY: FRAMINGHAM
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 01701
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/658,136
; FILING DATE:
```

```

CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: LASSEN, ELIZABETH
REGISTRATION NUMBER: 31,845
REFERENCE/DOCKET NUMBER: GEN4-17.8
TELECOMMUNICATION INFORMATION:
TELEPHONE: 508-872-8400
TELEFAX: 508-872-8400
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 53526 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-658-136-2

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Query Match      1.8%; Score 55; DB 3; Length 53526;
Best Local Similarity 46.0%; Pred. No. 0.00027;
Matches 225; Conservative 0; Mismatches 260; Indels 4; Gaps 1;

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QY 96 CTCCTCACTTAAGCTGAGCTTCAATGCTGATGCGCATCTGCAATCTGCAATCTGACCTGCG 155
DB 35885 CTCCTCACTTCTTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT 35944
QY 156 GATATCACTGAGCTGCGCGCTTTCACCGCGCTTTCATGCTGATGCAACCGCGCTTCCCTTCC 215
DB 35945 TCCCTCTCTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT 36004
QY 216 TCCAGGAACAACACTGAGCTTCAATGCTGATGCGCATCTGCAATCTGCAATCTGACCTGCG 275
DB 36005 TCCCTCTCTTCTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCC 36064
QY 276 TCACCACTTCTGAGCTTCAATGCTGATGCGCATCTGCAATCTGCAATCTGACCTGCG 335
DB 36065 TCCCTCTCTTCTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCC 36124
QY 336 CTCCTCACTTAAGCTGAGCTTCAATGCTGATGCGCATCTGCAATCTGCAATCTGACCTGCG 395
DB 36125 CTCCTCTCTTCTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCC 36184
QY 396 TCTCTCATGCTTTCACACGCGCTGCTGATGCGCATCTGCAATCTGCAATCTGACCTGCG 455
DB 36185 TCTCTCTCTTCTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCC 36244
QY 456 CACTATCAACAGTTCATGATGCAACGCGCTGCTGATGCGCATCTGCAATCTGCAATCTGACCTGCG 515
DB 36245 CTTCCTCTCTTCTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCC 36300
QY 516 ATAGTCACTGATCTTCTGACAGCTTTCATGCTGATGCGCATCTGCAATCTGCAATCTGACCTGCG 575
DB 36301 TTCTCTCTTCTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCC 36360
QY 576 TCGCTCCAC 584
DB 36361 CCGCTTCC 36369

```

```

RESULT 9
US-08-658-136-1
Sequence 1, Application US/08658136
Patent No. 6071717
GENERAL INFORMATION:
APPLICANT: KLINGER, KATHERINE W
APPLICANT: LANDES, GREGORY M
APPLICANT: BURN, TIMOTHY C
APPLICANT: CONNORS, TIMOTHY D
APPLICANT: DACKOWSKI, WILLIAM
APPLICANT: GERMINO, GREGORY
APPLICANT: QIAN, FENG
TITLE OF INVENTION: POLYCYSTIC KIDNEY DISEASE GENE
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:

```

```

ADDRESSER: GENZYME CORPORATION
STREET: ONE MOUNTAIN ROAD
CITY: FRAMINGHAM
STATE: MASSACHUSETTS
COUNTRY: USA
ZIP: 01701
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/658,136
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: LASSEN, ELIZABETH
REGISTRATION NUMBER: 31,845
REFERENCE/DOCKET NUMBER: GEN4-17.8
TELECOMMUNICATION INFORMATION:
TELEPHONE: 508-872-8400
TELEFAX: 508-872-5415
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 53577 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-658-136-1

```

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Query Match      1.8%; Score 55; DB 3; Length 53577;
Best Local Similarity 46.0%; Pred. No. 0.00027;
Matches 225; Conservative 0; Mismatches 260; Indels 4; Gaps 1;

```

```

QY 96 CTCCTCACTTAAGCTGAGCTTCAATGCTGATGCGCATCTGCAATCTGCAATCTGACCTGCG 155
DB 35880 CTCCTCACTTCTTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCC 35939
QY 156 GATATCACTGAGCTGCGCGCTTTCACCGCGCTTTCATGCTGATGCAACCGCGCTTCCCTTCC 215
DB 35940 TCCCTCTCTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCC 35999
QY 216 TCCAGGAACAACACTGAGCTTCAATGCTGATGCGCATCTGCAATCTGCAATCTGACCTGCG 275
DB 36000 TCCCTCTCTTCTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCC 36059
QY 276 TCACCACTTCTGAGCTTCAATGCTGATGCGCATCTGCAATCTGCAATCTGACCTGCG 335
DB 36060 TCCCTCTCTTCTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCC 36119
QY 336 CTCCTCACTTAAGCTGAGCTTCAATGCTGATGCGCATCTGCAATCTGCAATCTGACCTGCG 395
DB 36120 CTCCTCTCTTCTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCC 36179
QY 396 TCTCTCATGCTTTCACACGCGCTGCTGATGCGCATCTGCAATCTGCAATCTGACCTGCG 455
DB 36180 TCTCTCTCTTCTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCC 36239
QY 456 CACTATCAACAGTTCATGATGCAACGCGCTGCTGATGCGCATCTGCAATCTGCAATCTGACCTGCG 515
DB 36240 CTTCCTCTCTTCTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCC 36295
QY 516 ATAGTCACTGATCTTCTGACAGCTTTCATGCTGATGCGCATCTGCAATCTGCAATCTGACCTGCG 575
DB 36296 TTCTCTCTTCTTCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCC 36355
QY 576 TCGCTCCAC 584
DB 36356 CCGCTTCC 36364

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RESULT 10

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; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13343
; LENGTH: 18955
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(18955)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13343
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Query Match      1.6%; Score 50.6; DB 4; Length 18955;
Best Local Similarity 46.0%; Pred. No. 0.0027;
Matches 246; Conservative 0; Mismatches 284; Indels 5; Gaps 2;
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QY 53 CGGCATGCGCTTCCCTGCAACTGCACTGCAACGACGCGCGCTCTCTCACTTACTCGG 112
DB 3929 CCGCTTTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 3870
QY 113 CTTTCATGCTTCATGCGCATCTCTCAACATCTGCACTGCGAGATATCATCTGAGCTG 172
DB 3869 CTCCTCCTCACTGCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 3813
QY 173 CGGCTTTCACGCGCTCTCATGTCACGCGCTGCTCCTCTCTCCAGAGAAACAACCTG 232
DB 3812 CTCCTACTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTC 3753
QY 233 AGCTTCATTTTCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTG 292
DB 3752 CCGCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 3693
QY 293 TAACACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACT 350
DB 3692 TCCCTCTTCTGCTCACTGCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 3633
QY 351 TTGACATGCTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTG 410
DB 3632 CTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 3573
QY 411 CAACACGCTGCTCTCATCCTCCCAAGAAAGCTTGTATCATCTCTCATCATCAAGTT 470
DB 3572 CTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 3513
QY 471 CACTGATTCAGCAACAACTGCACTGCTGCTCTTGTGCACTGATTAAGTCACTGATCT 530
DB 3512 CTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 3453
QY 531 CTCCTACCATCTTTCATCATCTCCTTACTGACGACGCGCTGCTGCTGCACTGCACT 585
DB 3452 CTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 3398
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RESULT 13
US-09-949-016-12818/c
; Sequence 12818, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
```

```
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12818
; LENGTH: 30678
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(30678)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12818
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Query Match      1.6%; Score 50.6; DB 4; Length 30678;
Best Local Similarity 46.0%; Pred. No. 0.0039;
Matches 246; Conservative 0; Mismatches 284; Indels 5; Gaps 2;
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QY 53 CGGCATGCGCTTCCCTGCAACTGCACTGCAACGACGCGCGCTCTCTCACTTACTCGG 112
DB 1565 CCGCTTTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 1596
QY 113 CTTTCATGCTTCATGCGCATCTCTCAACATCTGCACTGCGAGATATCATCTGAGCTG 172
DB 1595 CTCCTCCTCACTGCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 15539
QY 173 CGGCTTTCACGCGCTCTCATGTCACGCGCTGCTCCTCTCTCCAGAGAAACAACCTG 232
DB 15538 CTCCTACTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 15479
QY 233 AGCTTCATTTTCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTG 292
DB 15478 CCGCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 15419
QY 293 TAACACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACT 350
DB 15418 TCCCTCTTCTGCTCACTGCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 15359
QY 351 TTGACATGCTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTG 410
DB 15358 CTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 15299
QY 411 CAACACGCTGCTCTCATCCTCCCAAGAAAGCTTGTATCATCTCTCATCATCAAGTT 470
DB 15298 CTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 15239
QY 471 CACTGATTCAGCAACAACTGCACTGCTGCTCTTGTGCACTGATTAAGTCACTGATCT 530
DB 15238 CTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 15179
QY 531 CTCCTACCATCTTTCATCATCTCCTTACTGACGACGCGCTGCTGCTGCACTGCACT 585
DB 15178 CTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 15124
```

```
RESULT 14
US-09-949-016-16420
; Sequence 16420, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
```

```

; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 16420
; LENGTH: 234884
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(234884)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-16420

```

```

Query Match      1.6%; Score 49.8; DB 4; Length 234884;
Best Local Similarity 45.5%; Pred. No. 0.031;
Matches 258; Conservative 0; Mismatches 302; Indels 7; Gaps 2;

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QY 10 TCGACCTCTTCTTCATTCATTCGAAAGACACAAAGCGCCATCGCTTCCCT 69
DB 29923 TCCCTCCCTCTTCTTCATTCGAAAGACACAAAGCGCCATCGCTTCCCT 29982
QY 70 CAGAACTCTGACGACGCGCGGCTCTGACTTACGAGCTTATGCTGCTGACG 129
DB 29983 CCGCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 30042
QY 130 CCATCTCTCAATGATGAGCTGAGATGATGATGAGCTGAGCTGAGCTGAGCTG 189
DB 30043 TCTCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 30102
QY 190 TCCATGTCACGCGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 249
DB 30103 TCTCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 30162
QY 250 ACTGACCTCTGACGACGCGGCTTACGACTTGAAGCTTGAAGCTTGAAGCTT 309
DB 30163 CTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 30217
QY 310 TCACATCAACGATCAATGATGATGATGATGATGATGATGATGATGATGATG 369
DB 30218 CTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 30277
QY 370 AACATTCACCTTCAAGCTCTGATCTGATCTGATCTGATCTGATCTGATCTG 429
DB 30278 CCTCATTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 30335
QY 430 CCCCAAGAAAGTTGTGATGATGATGATGATGATGATGATGATGATGATGAT 489
DB 30336 CTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 30395
QY 490 ACTGACCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 549
DB 30396 GCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 30455
QY 550 TCTCCCTTACTGACGACGCGCTGCT 576
DB 30456 TCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 30482

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RESULT 15
US-09-949-016-12345

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; Sequence 12345, Application US/09949016
; Patent No. 6812339

```

```

; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.

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; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR APPLICATION NUMBER: 60/241,755

```

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; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 12345
; LENGTH: 86414
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(86414)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12345

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Query Match      1.6%; Score 48.6; DB 4; Length 86414;
Best Local Similarity 46.3%; Pred. No. 0.034;
Matches 230; Conservative 0; Mismatches 264; Indels 3; Gaps 2;

```

```

QY 14 CTTCTTCTTCATTCATTCGAAAGACACAAAGCGCCATCGCTTCCCTGACA 73
DB 67800 CTTCTTCTTCATTCATTCGAAAGACACAAAGCGCCATCGCTTCCCTGACA 67859
QY 74 ACTCTGACGACGACGCGGCTCTGACTTACGAGCTTACGAGCTTACGAGCT 133
DB 67860 TGTTCATTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 67919
QY 134 CTCTCAATGATGAGCTGAGCTGAGATGATGAGCTGAGCTGAGCTGAGCTG 193
DB 67920 CACGCTGATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 67979
QY 194 TCGTACGCGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 253
DB 67980 TCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 68039
QY 254 GACCTTACACGACGCGGCTTACGACTTGAAGCTTGAAGCTTGAAGCTTGA 313
DB 68040 CTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 68097
QY 314 CATCAACCAATCAATGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 373
DB 68098 CTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 68156
QY 374 CTATCACTTCAAGCTCTGATCTGATCTGATCTGATCTGATCTGATCTGAT 433
DB 68157 CTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 68216
QY 434 ACGAAAGTTGTGATGATGATGATGATGATGATGATGATGATGATGATG 493
DB 68217 CCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 68276
QY 494 GACCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 510
DB 68277 TGTCTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 68293

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Search completed: July 22, 2005, 01:04:48
Jed time : 489 secs

QY	907	TACAGTGGAAATCCTCTATAGAACCCGTATATATATAGGATGTAAGTAACTCCTGGTCC	966
Db	8731	TACAGTGGACAGTTCTTCTGTGATCTTGACTACAACTGATGAGACAGAAATCTCAATCT	8790
QY	967	ACTGACCGGAGTGGAGACCAATGTTTATACAGAGCTTATAGGATGTAATTTGAACGCTCT	1026
Db	8791	TCAGGCTAGAGAGAGAACAGAGAAATATGAAGTTTCAG-----	8831
QY	1027	GCAGCTGCAGCTAATCAAGAAGAGCTGAAAATCGCTAGAGGAAAGAGGCGATGTCCAGT	1086
Db	8832	-----AAGGAAAGCTGAGATAGCCCGAGGAAAGAGAGCGATGACAGAG	8874
QY	1087	AGATATAGCTGATTTGATGAGAGATATCAAACTAGATATGAGCCAGAGTATGGCCGCAAG	1146
Db	8875	AGGATATAGCTTATATAGAGAAAGATGTGAGAGACAGATACATGCTTGAAACAGATCCGAGA	8934
QY	1147	GAGACGAAGCTACTGAAACAAATCCGACGAGGTTACATGAGAGAGATATCAGATTCCTTT	1206
Db	8935	GCTACCAAACTTCTGACACAGCCGACATATTTGCTACTGAGAAATATGTTAGGCTTTTC	8994
QY	1207	GAGATGAATGACTTCTGGGGAACGAGGATCTCTGATATGAGACTTTAGCCAGTTGGGG	1266
Db	8995	AAGCTGATGAGTTCTGTAGACAGAGGATCTCTTGCTGACCTGACCTGCACAACCTCGSA	9054
QY	1267	TTACTGAGAGACGTGCACACATCTGTTCCAGAAAGTCAATCAG-----	1308
Db	9055	TTGTTGGAAGATGTTACACACCTGTACCAAAAGTTGTCAATCTGAGACATTTGATGCTTAT	9114
QY	1309	-----ATPAGAGAGACATTCGAGTTCTTTTCCACACTGSCAGTGGAAATG	1355
Db	9115	CCGATATGACATATGAAAGATGAGCAATACAAATTCCTCTCACACTGCAAGTAAAGTCC	9174
QY	1356	TATGAGGAGACTCACAGACTTTTGAAGTGCATGAGGATACATGGGGTTAGCTTCTTGACGTTCTTA	1415
Db	9175	TACCAAGGATATGACCTGTGATGAGTTGATGTGAAAGGTTTGGGATTTCTGCATTTTCT	9234
QY	1416	GTGATGTAACACCGGTATACAGATTTTATCAAGAAATTTGAGAAAGTGTGGTTTCCT	1475
Db	9235	GTGATGATGATCAAGATTAACAGTTTATCAATCAAGCATTTGAGAAAGATTTGTTGGCTTCCC	9294
QY	1476	AGTGAAGAGGGAACCAACCCACGGTTTACACGGGAAGAGCTTAAAGATTTGTGGGCTACT	1535
Db	9295	AGTGAAGCGGATCTTACGCCAAGTATGAAAGAGAGGTTGAAAGCTTGTGATCAAC	9354
QY	1536	ATTGGGAACAAATCTACCGCTAAACTCGACGGGTCCAGAGCAACCAATCCGAGTCT	1595
Db	9355	ATTGGCACCTCCGTACCGTTGATGCTTCCAGGTCAAGAGCAATCAGATACGACGCTT	9414
QY	1596	GTGATTCGCTACTTTCAGCGCTCGGTTGCCAATGTTTTTACTCCAGGAGTCTACAGGC	1655
Db	9415	GTCAATCAGATCTTCCACGTTCTGTACCAACGATCTACTCCCGAGAGATTATACAGG	9474
QY	1656	AACCGTGTACACGACATGAAAGATGATGATTTCAGGCGTTATAGGATTTCTCGGCTT	1715
Db	9475	ACTGCATCTACTCGATATGAGAGATGATCGAATGCGCTTCAGAGGAATCTTTCGCCAA	9534
QY	1716	ACAAAGGAAAGAAATGTCCTGAGAGAGATCTTATACGACTCAGCACAGTATATGCTCTG	1775
Db	9535	ACTAAAAATGGCATTCCTCCAGGTTAAAGTCAATACACACTCTCTCTATCTTCTT	9594
QY	1776	TTGATTCATCTGTGTGGGTACATGAAGTGGCGCTGACAAACGGCAGAAAGAGATAGA	1835
Db	9595	CTGATTCATCTGTGTGGGTATCAAAAGCTGGGCGGTCACTAAATACCGCAAGAGAGACGA	9654
QY	1836	GGAAGACATATGCTGGGTGGGCTTGTGACGCCAATTTCTGAAGATTTGTGAGTTCCGCTC	1895
Db	9655	GCGGCTCTGTGATAGGTGGGCTTGTGACCGGATTTCTGAATAGCTTTGTGGAGTCCCACTC	9714
QY	1896	AAGGAAGTAGGGTTTGAACCGAGATGATGGACTTGATCACTTGGCCGCAATGTGAGTTC	1955
Db	9715	ATTTCTGCTGAGCTCGAGCCGAGCAATGAGATATCGAGCACATACGCTACCTGCGAAATTC	9774
QY	1956	TCGTGATTGACATGGTTGGCGACTTTCAACCGCTACAGGTTGAGCATTTCAATTTAGA	2015

Db	9775	CTGAGTTTTCATGTTGACGATTTTCCACAGGTTTCAAGGTTTGAAGCACTTACAGACAGG	9834
Qy	2016	ATCGCCAACAATCTTTTCCCTGSCATTTACGCTACAGATTTCTGAGGGCAGAAATT	2075
Db	9835	AGAGCTAACATCTCTTCCCTAGCGCTGAGGTCACTGATTAATCGAGGGTGTAAATCATTT	9894
Qy	2076	GACTTCAAGCTGCGCTGGAAGATCTTTATTTGAGGGCAGTCCGCCAAGTGGAGATT	2135
Db	9895	GATTTTAAGCTGAGATTGACGCTCTCTACTATAGAACCCCTCCACATTAAGTATGAGAT	9954
Qy	2136	AGTACACCGAAGAGGTACAATTAAGATGTTGATGACATATGATTAATGATGAGCGC	2195
Db	9955	GATTTCTTGAAGAAGCT-----GCTTGGATGGAGTGAATGAATGAACAGTGTG	10007
Qy	2196	GAGTTTGACACGAGCATGTATTCATTTTCAGTACGATATACCTCCAGCGAGAAAGCAAG	2255
Db	10006	AAGTTTGACACTAGTACATGATATCACTTTGCTGAACATGATACCTCCAGCGAGAGAGCAAG	10066
Qy	2256	AGTTTGAAGCAAGCTCACAGAAACACAGCAAGCTGCAGAAATGTGTGCAAGAAACAGAT	2315
Db	10066	AGCTTGACTAAGCTCAATAAGAAATACATTAATTTGATTAATGTGTGTCAGAAAGCAGAC	10122
Qy	2316	AAGTTTACCTGCGCAAGTGTCTCAGGGCTATCAAGTTTCTGAAAGACAAGATCAGCTGTCC	2375
Db	10126	AACTGATTCGCCAAGTGT-----TTTCAAGCTTCTGACAGATTAAGCTGAGTTGCTCT	10177
Qy	2376	TCTTCCACTACAACTATTCGCAATGACAGCTCCCTCAGGACATGCTTTGAGAGATAT	2435
Db	10177	TCCTTCACACATGCTATTTCCACAGATACAGCTCTCTCTGAGATGCATGAGAGATTT	10233
Qy	2436	-----GACGCGCCGAGCTGAGAGCAGAAAGATTTCGATGTTCCTCGCAGG	2483
Db	10237	AATGAACCTGCGCACAGCTGAGCTTACGAGCAGAGATCTCCACATGTCCAGGCTAGG	10296
Qy	2484	CATTATCATTTCCAGCCTCGTGAATCTAAGAAATTAAGGAACGACATCTCATCTGATCT	2543
Db	10297	CATTGTCAATTCGATCCCGGAAACACAAAGAAAGAAAGCTTACATCACTCGATCT	10355
Qy	2544	AGCAGCAGAGACAGACACTTCTGCACTCTGTATGTTTACGCGACCGCGGTGTCGCGCG	2603
Db	10357	AGCAGC---AGATCACCCCTCATTTCACTCGAGAGATCACTGACCCGCGGTGTCGCGCGC	10411
Qy	2604	AATGAAGAAAGAGAGTGTGAGATCTCTCAGACGCGTGTCTGCGCGCCACAGAGCTGATGAG	2663
Db	10414	AGCAGAAAGAGAGAGTGTGAGATTTCTTCAAGCGGTGTCTGCGCGCCACAGAGCTGATGAG	10477
Qy	2664	ATCGATATCCCACTGCTGAGAGCTGATACGGAACATGAGCGGTTCTGTATAGGCTTGGAG	2723
Db	10474	GTCAGATATCCCACTTACGAGCTGATACGAACAAAGCGGTTCTGTATAGGCTTGGAG	10533
Qy	2724	CAATCACAGGAGGCAATTGACTACCAACTTCGTTCAATTTTCACTGAGGTAAAGCGCTC	2783
Db	10534	CAATCGAGGAGGCAATTGAGAGACACTGACGTTCACTTTTCACTGAGGTAAAGCGCTC	10593
Qy	2784	ACTTCACCATTAATTAATCATCTCTGTGATTTGT--TCTTATTTTGTTCAGTGA	2840
Db	10594	ACTTCACCATTTGATACGATACCGATGTGTGATTTGTATCTCTTTTGTTCGTGTGA	10655
Qy	2841	TTGATTTTGTCTGAGTACTCTCTTCCAAAGTTTATTCACACAGTGAATGTGTGATTTAA	2900
Db	10654	TTGATTTTGTCTGAGTACTCTCTTCCAAAGTTTATTCACACAGTGAATGTGTGATTTAA	10711
Qy	2901	GTTTGGGGGAGGGCTCAGGAA--GTATGTGCAATGTATATTTTAAAGTGTGCAATTC	2958
Db	10714	GTTTGGGGGAGGGCTCAGGAAATGTGTGCAATGTATATTTTAAAGTGTGCAATTC	10777
Qy	2959	TCTAAGCATTAAGAAAAACAAAAAAATTAATAATTTTCAGAAAAATGATTTTCAAAAAA	3018
Db	10774	TCTAAGCATTAAGAAAAACAAAAAAATTTGAAAAATTTTCAAAAAATGATTTTCAAAAAA	10833
Qy	3019	AGAGTGTTCATGATGTTGCATTTACATTTAGAGATCAAGTCTAAGAGTGTTCATTTAGGATT	3078

Db	10280	AGTCCACATCTCCAGGCTTAGGCACTTGTCTATTCGATTCCTCCGGAAACACAAAGAAAG	10339
Oy	2522	GAGAACGACACTCACTCGATCTAGACAGACAGACGACGACTTCTGCACTTCGTAGTTT	2581
Db	10340	GAAGGCTTAACTCACTCGATCTTAGCAGC--AGATCACGCTCATTCATCTCGAGGAGATC	10396
Oy	2582	ACGGGACCGGGGCTGCTGGCCGCAATGAAABAAGAGGTGCAATATCCACAGCGGTGC	2641
Db	10397	ACTGCACCGGGTGTCTGGCCGACAGAAAGAGAGGTGCAATTTTCTTCAGGCGGTGC	10456
Oy	2642	TGCGCCGACACAGAGCTGATGAGATCGAGTACCAACATGCTCGAGCTGATACGGAATGG	2701
Db	10457	TGCGCCGACACAGAGCTGATGAGGTCCAGTACCACTGCTCGAGCTGATACGGAACAGG	10516
Oy	2702	CGGTTCGTATAGGCTTGGAGCAATCACAGGACGCAATTGACTACCACTTCGTTCATT	2761
Db	10517	AGTTTCGTATAGGCTTGGAGCAATCGCAGGACGCAATTGACGACCACTACGTTTCATT	10576
Oy	2762	ATTGCACTGAGGTAGAGCGCTCACTTACCAATTAATTAATCATCTCTTGATTTGTT	2821
Db	10577	CTTGCACTGAGGTAGAGCGCTCACTTACCAATTAATTAATCATCTCTTGATTTGTT	10636
Oy	2822	CTT---TATTTTGTTTCAAGTATGATTTGTCCTGAGTACTCTCTCCAGTTATTTCA	2878
Db	10637	TCTTCATTTTTTTTGTTCGTGATTTGATTTGTCTGAGTACTCTCTCCAGTTATTTCA	10696
Oy	2879	CACAGTGCATGTCGTATTTAAGTTTGGGGAGGGCTCAGAA--GTATGTTGCATTGTA	2936
Db	10697	CATAGTGCATGTCGTATTTAAGTTTGGGGAGGGCTCAGAAAGTGTGTTGCATTGTG	10756
Oy	2937	TATATTTTTTAAGTGTGCATTCATCTAAGGATAGAAAAACCAAAAAAATTTAAATTT	2996
Db	10757	TATATTTTTTAAGTGTGCATTCATCTAAGGATAGAAAAACCGAAAAAATTTGAAAAATTT	10816
Oy	2997	CAGAAATATGATTCAC--AAAAAAGAGTGTTCATGTAGTTGCATTATAGATCAAG	3055
Db	10817	CAGAAATATGATTCACAAAAAAGAGTGTTCATGTAGTTGCATTATTTAGATCGAG	10876
Oy	3056	TCTAGAGTGTTCATTATAGATTTGTTGCATATGATCATTAGGGATTAATGATGAGTACCTT	3115
Db	10877	TCTAGAGTGTTCATTATAGATTTGTTGCATATGATCATTAGGGATTAATGATGAGTACCTT	10936
Oy	3116	GTAAAGCA 3122	
Db	10937	GTAAAGCA 10943	

```

RESULT 3
US-10-315-515-127
; Sequence 127, Application US/10315515
; Publication No. US20030166190A1
; GENERAL INFORMATION:
; APPLICANT: Wright, David A.
; APPLICANT: Voytas, Daniel F.
; TITLE OF INVENTION: NUCLEIC ACIDS RELATED TO PLANT
; TITLE OF INVENTION: RETROELEMENTS
; FILE REFERENCE: 08411-031001
; CURRENT APPLICATION NUMBER: US/10/315,515
; CURRENT FILING DATE: 2002-12-10
; PRIOR APPLICATION NUMBER: US 60/339,060
; PRIOR FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 168
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 127
; LENGTH: 14016
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-10-315-515-127

Query Match      33.4%   Score 1042.2; DB 16; Length 14016;
Best Local Similarity 69.1%; Pred. No. 9e-279;
Matches 1622; Conservative 0; Mismatches 618; Indels 109; Gaps 109;

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QY	825	TTGTGTTTGTGGTTTGGTATTACTAACAATATTAACGTTATCTTTGAGTTTGGCTGT	884
Db	8681	TGGTTTCAATGGCTATCTTTGAGACTTAACCTATTTAACAATTTACGCTTTGAGTTTCAAAATCC	8740
QY	885	TTTAGGTTTCAATCAATGAGTAATCTACAGTGGGAAAATCCCTATGAGACCTCGATTATTAATGT	944
Db	8741	CTACAGAGGATATCATGAGCAATTAACATGGGAGTTCTTTGTGTATCTGTACTACAT	8800
QY	945	GGATGAACCTAAGTCTGTGTCACCTAAGCCGAGTGAAGCAACATGTTTACGAGCTA	1004
Db	8801	GGATGAGACAGAAATCGATCATCTTCAAGCCGAGAGAGAAACAGAGAAATCGAAAGTTT	8860
QY	1005	TAGGGATGAATTTGAACGCTCGACGCTCGACCTATCAACAAAGAGCTGAATCGCTAG	1064
Db	8861	CAG-----AGGAAAGCTGAGATAGCCG	8884
QY	1065	AGGAAGAAGGCGATGTCGAGTATATGAGCTGATTGATGAGATATCAAACTGAGTA	1124
Db	8885	AGGAAGAAGACCGATGACAGAGAGTATGAGCTTATAGACGAATCTGGAAGACGAGTA	8944
QY	1125	TGAGCCAGATCATATGGCGCAAGAGAGAGAGCTATGAACAAATCCGACGAGTTACAGT	1184
Db	8945	CATGCTGAACAGACTGCGACAGCTACCAACTTCTGACAAAGCCCAACATATTGCTGC	9004
QY	1185	GGAGAGATATATCAAGATTCTTTGAGATGAATGATCTTGCGGAAACGAGTATCCCTGATA	1244
Db	9005	TGAGGAATATGTTAGGCTTTTCAAGCTGAATGAGTTCTGTATGACAGAGATATCTTGTCTC	9064
QY	1245	TGAGACTTTAGCCCAAGTTGGGGTTACTGAGAGACGTGACAGATCTGTTCCAGAAAGTGTCA	1304
Db	9065	GACCTCATCTTGCAACAACCTCGGATTGTTAAGAAATGTTTACAGCACTGTGACCAAAATTTGTCA	9124
QY	1305	TCTG-----ATAGAGAGAGACAATCGAGTTTCT	1333
Db	9125	TCTGAGACACTGTAGTGGCTTATCCGTATGTATGACATATGAAAGTGAACATACAAATTCCT	9184
QY	1334	TTCCACACTGCAAGTGAATATGTATGAGGACCTCAACAGACTTTGAGCTGATACCAATGGG	1393
Db	9185	CTCCACACTGCAAGTGAAGCTCTTCAAGGTATGACCTGTGATGAGTTGGATTGTGAAGG	9244
QY	1394	GTTAGGCTTCTTGAAGTCTTATAGTGAATGAAACAGCGGTACCAAGATTATAGATCAAGAAATT	1453
Db	9245	ATTGGGATTTCTTGGCAATTTCTGTGTATGATCAATGAGTATAGTTATCAATCAAGCAATT	9304
QY	1454	GGAAAGACTGTTTGGTTTCCCTAGTGGAAAGGAAACCAACCCAGGTTTGAACAGGAGAA	1513
Db	9305	GGAAAGGATGTTTGGCTTCCCAAGTGGGATGGATCTTAAGCCAAAGTATGAAAGGAAAG	9364
QY	1514	GCTTAAGGATTTTGGGCTACTATTTGGGAACAAATCTACCGTTAAATCTGACGGGCTCAA	1573
Db	9365	GCTGAAACACTTGTGGATCAACATTTGGGACGCTGTGACCGTTGATGCTTCAAGTCAAA	9424
QY	1574	GAGCAACCAATTCGGAGATCTGTGATTCGCTACTTTTCAGGGCTCGGTGCGCAATGTTTTT	1633
Db	9425	GAGCAATGATAGCGACCCCTGTCAATAGGTAATCTTCAAGGCTTCTGTAGCCAAACGTACT	9488
QY	1634	TTACTCCAGGAGTCTTACAGGCAACGTGTCTTAAACAACAAGACATGAAGATGATAGATTCAGC	1693
Db	9485	CTACTCCTGAAGAGATTACAGGGAATGTCACTTAATCTGATATGAGAGATGATCGCAATGGC	9544
QY	1694	GCTTATAGGATTTCCGCGCTTACAAAAGGAAABAATATCTCTGAGAGAGATCTTAAACGA	1753
Db	9545	CCTCAAGGAACTCTTGCCCAAACTTAAGATGTATGCTCCCTCAAGGCTGAATTAATGA	9604
QY	1754	CTCAACAACAGATTAATGCTCTGTGTGATCCATCTGTGTGGGTATCAATGAATGGGCGCTGAC	1813
Db	9605	CACACCCCTAATGATATCTTCTTGATCATTGTGTGGATATCAAGAAGTTGGGCTGTAC	9664
QY	1814	AAACGGCAAGAAAGATTAAGAGAGACTATGTGTGGGTGGCGTTGTGAGCCCAATTCCT	1873
Db	9665	CAATTAACGCAAGAGAGACAGAGCGCTCTGTGTGTAGTGGCGCTGTGTGAACCCGATTCCT	9724

OY	1300	TGTCATCTG-----	ATPAAGAGGAGCAATCGAG	1328
Db	9074	TGTGATCTGGACACTTTGATGGCTTATCCGTAATGACATATGAAATGAGACAAATACAA	9133	
OY	1329	TTTCTTTTCACTGCAAGTGGAAATGATAGGGACCTCACACTTTGACTGATACC	1388	
Db	9134	TTCTCTTCCACACTACAAAGTAGAGCTCTACCAAGGATATGACCTCTGATGAGTTGGATTGT	9193	
OY	1389	ATGGGGTTAGGCTCTTGACGTTCTTGATGAGATGAAACAGGGGTATCCAGATTTAGATCAAG	1448	
Db	9194	GAAAGATTGGGATTCCTTGCGATTTTCTGTATATGGTCATGAGTACAGGTTATCAATCAAG	9253	
OY	1449	AAATTGGAAGAACTGTTGGTTTCCCTAGTGGAAAGGAAACCAACCCAGGTTTGACAG	1508	
Db	9254	CGATTGGAGAGATTTGTTTGATTTTCCAGTGGAAACGGGATCTTAAGCAAAAGTATGAAAGA	9313	
OY	1509	GAAAGCTTAAAGATTTGTGGGCTACTATTTGGGAAACAATCACTGCTTAACTTCGACGCG	1568	
Db	9314	GAAAGATTGAAGAAGCTGTGGATTCACATCGAGGAGCTGTGTACGTTGATGTCTTCAG	9373	
OY	1569	TCCAAGAGCAACCAATCCGGAGTCCGATGATTCCGACTTTGAGGGCTCGGTGGCAAT	1628	
Db	9374	TCAAAAGACAACTCAGATACGACGCCCTGTATCAGGTACTTCCAGGGTTCTGTAGCAAC	9433	
OY	1629	GTTTTTTACTCCAGGAGCTTACAGGCAACCGTGTCTTAAACAGACATGAAATGATAGAT	1688	
Db	9434	GTACTTACTCTCCAGAGATTATACAGGAGACTGTCACTTACTATATGAGATGATCGCA	9493	
OY	1689	TCAGCGCTTATAGGGAATTCGCCGCTTACAAAGAAAGAAATGTCCTGAGAGAGATCTT	1748	
Db	9494	ATGGCCCTCAAGGAACTCTCCGCAAACTTAAATGCAATGTCCTCCAGGGTGAAGTC	9553	
OY	1749	AACGACTCACCAACCAATATGCTCTGTGTATCCATCTGTGTGGTATCAATGAAATGGAGG	1808	
Db	9554	AATGACACACTCTCTCTATACTTCTTCTGATCCATCTGTGTGATATCAAAAATCTGGGG	9613	
OY	1809	CTGCAAAACGGCAAGAAAGAGTTAAGGAGACATATGCGTGGGTGGCTTTGTGACGCCA	1868	
Db	9614	GTCAGCAATTAACCGCAAGAGAGACAGGGGCTCTGTGCATAGGTGGCGGTGTGACACT	9673	
OY	1869	ATTCTGAAAGTTTGTGAGATTCCGCTCAAGAAATGAGGTTTACACCGAATATGATGAC	1928	
Db	9674	ATTCTGATAGCTTTGTGAGTCCCACTATTTCTGTGAACTCGAGCCAGAGCAATGAT	9733	
OY	1929	TTGATCACTTGCGCGATGTAGTTCTGTAGTTTGACATGAGTTGGGCACTTTCACCGC	1988	
Db	9734	ATCGACACCTAAGCTCACTGCAATTCCTGGAAGTTTGCAATGTGATACGATTTCCACAG	9793	
OY	1989	TACAGTTTCCAGCACTTCATGATTTGAAATGGCCAACTTTCTTTCCCTGTGATTAACGT	2048	
Db	9794	TTTCAGGTTTGACACTTACAGACAGGAGAGCTTAACCTTCTTCCCTGACCCCTGTGGTTC	9853	
OY	2049	ACTAGGATTCGAGGGCAGGAACATTTGACTTCAAGGCTGCGTTGAAAGTCTTTATTTTC	2108	
Db	9854	ACAGGGAATTCGAGGGAGATTAACATTTGATTTTAAGGCTGTGAATGGAACGCTTACTAT	9913	
OY	2109	GAGGGCAATCCGCCCACTGAGAGATTATGTCAACCGAAGAGCTTCAATATGAAGATTT	2168	
Db	9914	GAGAACGCTCACCATTTAGATGAGAGCAATCTTCTTGAAGAAAGCT-----GCTTGC	9964	
OY	2169	GATAGACATATGATATTAATGATGAGGCGGAGTTTGAACGAGACATGATCTTCACTGAG	2228	
Db	9965	GATGGATGATGATGAAGATGAGACATGAAGTTTGACACTGACATGTATTCATTTGCTGAA	10024	
OY	2229	CATATTACTCCAGGAGGAAAAGCAAGAGTTTGAAGAGACTCAACGAAACAACAGCAAG	2288	
Db	10025	CATGTACTCTCAGGAGGACAGAGCAAGAGCTTGACTGAAGCTCATTAAGATTTACAGTAA	10084	
OY	2289	CTGAGAAAGTGTGTCAGAAACAAGATTAAGTATCTGCGCAAGTGCCTCAAGGCTATACAG	2348	
Db	10085	TTGCAAGATGTGTCAAGAACAGAGCAAGCAAGGCTGATTCGCCAAGG-----TTTCAAG	10135	

QY	2349	TTTTCGAAGACAAGATCAGCTGCTCTCTTTCACATCAACTATATCCGAATGACAGCTC	2408
DB	10136	CTTCTGACAGACAAAGCTGAATGCTCTTCTCTCCACACACTGATATTCACAGGTAACA	10139
QY	2409	CCTCAGGACATGCTCTGAGAGATATGACGC-----GCCGAGCCTAGAGAG	2456
DB	10196	CCTATGGAATAATGCGATCGAGGAGAAATTAATGACCTGCGACACAGGCTGTGAGCTT	10251
QY	2457	CNAGAAAGATTTCGATGATCCCTGCGAGGCAATTCATCATTGAGGCTCGTGAATCTAG	2516
DB	10256	CAGAGAGTCCCACTATGTCACAGGCTTAGGCAATTCGATTCAAATCCCGGAAACA	10311
QY	2517	AATGAGAGAAAGCACTCACTCGATCTTAGAGAGCAGAGACAGACGATCTTGCAAGT	2576
DB	10316	AGAAAGAAAGCTACATCTCACTCACTCAATCTAGCAGC---AGATCAAGCCTCAAT	10377
QY	2577	AGTTTACGCGACCGCGGTGCTGCGCCGCAATAGAAAGAGAGGTGCAATTCCTCAG	2636
DB	10373	AGATCACTCGACCGTGGTGTGCGCCGACGACAAAGAGAGATGTCAGTTTCTCTCAG	10433
QY	2637	GGTGTGCGCCGCCACAGCTGATAGAAATGAGATCCCAATGCTGGAGCTGATACGGA	2696
DB	10433	GGTGTGCGCCGCCACAGCTGATAGAAATGAGATCCCAATGCTGGAGCTGATACGGA	10499
QY	2697	CATGGCGGTTGCTATAGCTTGGGAGCAATTCACAGGACCCATTGACTCAACATTCG	2756
DB	10493	CAAGGAGGTTGCTATAGGCTGTGGAGCAATTCGACGACGACCATTCGACGACATCG	10551
QY	2757	TCATTATTTCGACCTGAGGTAAGCGCTCACTTCACCAATTATATATATCTCTTGAT	2816
DB	10553	TCATTCTTCGACCTAGGTAAGCGCTCACTTCACCAATTATATATATCTCTTGAT	10611
QY	2817	TTGTTCTCT---TATTTGTTTCACTGATGATGGATTTGCTCGAGATCACTCTTCCAA	2873
DB	10613	TTGTTTCTCTCTTTTGTGTTCTGTGATTTGATTTGCTTGAGTACTCTCTTCCAA	10677
QY	2874	ATTCAACAGTGAAGCTGTGTGATTTAAATTGAGGAGGAGGCTCAGAA--GTAATG	2931
DB	10673	ATTCAACAGTGAAGCTGTGTGATTTAAATTGAGGAGGAGGCTCAGAAAGTGTG	10733
QY	2932	TTGTATATATTTTAAATGCTGCATTCATCTAAGGCATAGAAAAACCAAAAAA	2986
DB	10733	TTGTATATATTTTAAATGCTGCATTCATCTAAGGCATAGAAAAACCAAAAAA	10799
QY	2987	-----TTAAAAATTCAGAAAAATGATTTCAAC---AAAAAAGAGGTTCATGAT	3039
DB	10793	ATTTTGAAAAATTCAGAAAAATGATTTCTACAAAAAATGATTTCAATGATG	10851
QY	3040	TACATTTAGATCAAGTCTAGAGTGTTCATTATAGATTTGTCATATGCAATAGG	3099
DB	10853	CACATTTAGATCAAGTCTAGAGTGTTCATTATAGATTTGTCATATGCAATAGG	10911
QY	3100	ATGATGATAGCTGCTTGAACA 3122	
DB	10913	ATGATGATAGCTGCTTGAACA 10935	

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RESULT 5
US-10-315-515-122
; Sequence 122, Application US/10315515
; Publication No. US20030166190A1
; GENERAL INFORMATION:
; APPLICANT: Wright, David A.
; APPLICANT: Voytas, Daniel F.
; TITLE OF INVENTION: NOCLETIC ACIDS RELATED TO PLANT
; TITLE OF INVENTION: RETROELEMMENTS
; FILE REFERENCE: 08411-031001
; CURRENT APPLICATION NUMBER: US/10/315,515
; CURRENT FILING DATE: 2002-12-10
; PRIOR APPLICATION NUMBER: US 60/339,060
; PRIOR FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 168
; SOFTWARE: FASTSEQ for Windows Version 4.0

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; SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 122
 LENGTH: 13966
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: synthetically generated construct
 US-10-315-515-122

Query Match 32.9%; Score 1026.8; DB 16; Length 13966;
 Best Local Similarity 68.5%; Pred. No. 1.8e-274;
 Matches 1620; Conservative 0; Mismatches 627; Indels 117; Gaps 10;

QY 819 TTGAGTGTGTTTGGTTTGGTCTATCTAATACATATTAACGTTATCTTGAAGTTTG 878
 DB 8666 TTCAATCTGTTCATTGCTATCTTTGAGACTAACCATTGACATTTGACCTTGAAGTTCT 8725
 QY 879 TCTGTTTTAGGTTTCATCATAGATGAATACAGTGGAAAAATCCCTATGAGCCCTGATTA 938
 DB 8726 AATCCCTACAGAGAAATCATGAGCAATTACAGTGGCAGTTCTTGTGATCTGACTA 8785
 QY 939 TATATGATGAAGTAACTAAGTCCCTGCTCCACTAGACCGGAGTGAAGCAATGTTTACGA 998
 DB 8786 CAACATGATGAGACAGAACTGCTCATCTTCAAGGCCAGAGAGAGAACAGAGAAATACGA 8845
 QY 999 GAGCTATAGGATGAATTTGAAAGCTCTGACAGCTGACGTAATCAAGAAAGAGCTGAAT 1058
 DB 8846 AAGTTTCAG-----AAGAAAGCTGAGAT 8869
 QY 1059 CCTAGAGAGAAAGAGGCGATGTCAGATATAGATAGCTGATGATGAGATATCAAAAC 1118
 DB 8870 AGCCGAGAGAAAGAGAGCGATGAGAGAGATATGAGCTTATGAGAGATCTGAGAGA 8929
 QY 1119 TGAGTATGAGCCAGAGCTCATGGCGCAGAGAACAACTGACAAATCCGACGAGT 1178
 DB 8930 CGAGTACATGCTGAAACAGACTCGCAGAGCTACAAACTCTGCAACAAAGCCGACATAT 8989
 QY 1119 TACAGTGAAGAGATATATAGATTTCTTGAATGATGATCTCTGGGAAAGAGATATCC 1238
 DB 8990 GCTCTGTGAGAAATGTTAGGCTTTCAAGCTGAATGAGTTCTGAGACAGAGATATCC 9049
 QY 1239 CTGATATGAGATTTAGCCAGTGGGGTACTGAGAGACGTGACATCTGTTCCAGAA 1298
 DB 9050 TTGCTGACCTCACTTGACAACTGAGATTTGGAAGATGTTTACGACCTGTAACCAAG 9109
 QY 1299 GTGTCACTG-----ATAGAGAGAACAAATCA 1327
 DB 9110 TTGATCTGGAACACTTGTAGGCTTATCCGATGTAGCATATGAAAGATGAGCAATACA 9169
 QY 1328 GTTCTTTCACACCTGCAAGTGGAAATGATAGAGGACTCACAGACTTTGAGCTGAGATAC 1387
 DB 9170 ATTCTCTCACAATAAGTAGAGCTTACCAAGGTATGACTCTGATGAGTTGATG 9229
 QY 1388 CATGGGGTATGAGCTTCTGACGTTCTTATGATGAGTGAACAGCGGATCCAGATTTAGTCA 1447
 DB 9230 TGAAGATTTGGATTTCTTGCATTTCTGTATGTTCTATGATACAGTTATCATCA 9289
 QY 1448 GAAATTTGAAGAATGTTTGTTCCTTATGAGAAAGGAAACCAACCCCAAGTTTGAAG 1507
 DB 9290 GCGATTTGAAGATTTGTTGATTTCCAGTGGAAAGGAGATCTAAACCAAGATATGAAG 9349
 QY 1508 GGAAGAGCTTAAGATTTTGTGGCTATATTTGGGAACATCTACCGCTAACTCCAGCGG 1567
 DB 9350 AAGAAGTTGAAGACTTGTGATCACATCCGACACTGTATCCGTTAAATGCTTCCAG 9409
 QY 1568 GTTCAAGAGCAACCAATCCGAGTCTGTGATTCGCTACTTTCAAGCGCTCGGTTCCAA 1627
 DB 9410 GTCAAGAGCAATCAGATACGAGCGCTGTCAATCAGTACTTCCAGCGTTCTGTACCA 9469
 QY 1628 TGTTTTATCTCCAGGAGCTTACAGGACCGTGTCTTAAACAGACATGAAGATATGA 1687
 DB 9470 CGTACTCTACTCCCGAGAGATTAACAGGACTGTCACTTAACCTGATATGAGATGATCC 9529
 QY 1688 TTCAGGCTTATAGGATTTCTCCGCTTCAAAAAGAAAGATGTCCTGAGAGAGATCT 1747

DB 9530 AATGCCCTCAAGAGAACTCCGCAAACTAAATGCAATGCTCCTCAGGGTGAAGT 9589
 QY 1748 TAAAGATCAACCAAGATTAATGCTCTGTGATTCATCTGTGTTGATATAGATGGGC 1807
 DB 9590 CAATACACACTCTCTTATCTTCTTGTATCCATCTGTATGATTAACAAAATCGGGC 9649
 QY 1808 GCTGCAAAACGCAAGAAAGTAAAGAGACATATGCTGTGGTGGCTGTGACGCG 1867
 DB 9650 GGTTCAGATTAACCGCAAGAGACAGAGCGCTTGTGATATGTTGGTGTGACACC 9709
 QY 1868 AATCTGAAAGTTTGTGAGTTCCGCTCAAGGAAGTAAAGGTTTGAACCGAATATGA 1927
 DB 9710 TATCTGATAGCTTGTGAGTCCCACTATTCTGTGTGACCTGAGCCAGACATGGA 9769
 QY 1928 CTGGAATCACTTGGCCCATGTGAGTCTCTGATGTTTGAATGATGTTGGACCTTCAAG 1987
 DB 9770 TATCAGACCTTACCTCACTGCAATCTCTGAGATTTGCAATGTTGAGATTTCCACAG 9829
 QY 1988 CTACAGGTTGAGCATTCATGATTAAGATGCCAACTTTTCCCTGCAATTTACGC 2047
 DB 9830 GTTCAAGTTTGAAGCTCTACAGACAGAGACTTAATCTTCTTCCCTAGCCCTGAGT 9889
 QY 2048 TACTAGATTTCTGAGGCGCAGAACATTAATCTTCAAGCCTGCGCTTGAAGATCTTATTT 2107
 DB 9890 CACAGAGTAATCAGAGGAGATTAATCACTTGAATTTTGGCTGAGATTTGACGCTCTACTA 9949
 QY 2108 CGAGGCGATCCGCCAATGAGAGATTAATGTAACCCGAAAGACTCAATGAAAGAT 2167
 DB 9950 TGAAGACGCTCCACATTTAGATGAGAGCAGATCTTCTTGAAGAAAGCT-----GCTTC 10000
 QY 2168 TGATGAGCATATGATATGATGAGCGGAGTTTACACAGACATGATCATTTTCAGTA 2227
 DB 10001 GATGAGATGATGAAATGAGAGCAATTAAGTTCACTTACATGATATCATCTTGCTGA 10060
 QY 2228 GCATATACCTCCAGGAGAGAAAGCAAGATTGAGCGAAGCTCACAGAGAACACAGCA 2287
 DB 10061 AATGATCTTCCAGGAGAGCAGAGAGCTTGAAGCTCAATTAAGATTAACAGTAA 10120
 QY 2288 GCTGCAAGATGTGTCAAGAAACAGATTAATGTTACTGCGAATGCTTCAAGGGCTATCA 2347
 DB 10121 ATTGCAAGATGTGTCAAGAAACAGAGCTGATTCGCAAGTG-----TTTCAA 10171
 QY 2348 GTTCTGAAAGCAAGATTAAGTGTCTCTTCCACTAATCATTTCCGCAATGACAGT 2407
 DB 10172 GCTTCTGACAGCAAGCTGATGCTTCTTCTTCCACACTGTATTTCCACAGGTACACC 10231
 QY 2408 CCTCAGGACATGCTTCCAGAGAGATATGACG-----GCCGAGCCTTGAGA 2455
 DB 10232 TCTTATGAAATATGCAATGAGAGAAATTAATGCACTGCGACAGGCTGAGCTTATGCA 10291
 QY 2456 GCAAGAAATTTGCAATGCTCTGAGAGGATTCATTCATGAGCTCTGTAATTAAGAA 2515
 DB 10292 GCAGAGAGTCCCACTATGTCAGAGCTTATGCAATTCGATCCCGGAAACACAAGAG 10351
 QY 2516 GAATGAGAGAAAGCACTTATCTGATCTTACGACGAGAGACAGACACTTCTGAGCTCG 2575
 DB 10352 AAGAAAGAGGCTTACATCTCATGATCTGAGCG-----AATATCAGGCTTATTCATCTCGAG 10408
 QY 2576 TAGTTTACGCGACCGCGGTGCTGCGCAATGAAAGAAAGAGGTGAGATATCTTCAGAG 2635
 DB 10409 GAGATCATCTGACCGGTGTGTGCGCGAGCAGAGAGAGATGTCGATTTCTTCAGAG 10468
 QY 2636 CGGTGCTGCGCGCACAGAGCTGATGATGATGATCCCACTGTGAGCTGATACGA 2695
 DB 10469 CGGTGCTGCGCGCACAGAGCTGATGATGATGATCCCACTGTGAGCTGATACGA 10528
 QY 2696 AATGCGGTTGTGATATGCTTGGAGAGATCAAGAGAGCAATTTGATACCACTTGG 2755
 DB 10529 ACAGAGGTTGTCTATGAGCTTGGAGCAATGCGAGGACATTTGAGAGCACTTACG 10588
 QY 2756 TTCAATTTATGACTGAGGTTAGCGCTCACTTCAACATTTATTTATCATCTTGTGA 2815

Db 10589 TTCATCTTCGACGAGTGAAGCCCTCACTTACCATTGTATTTACCGTCTGTGTGCA 10648
Qy 2816 TTTGTTCTT---TATTTGTTTCAGTGAATGGATTGTCTGAGTACTCTTCCAGTT 2872
Db 10649 TTTGTTCTTCTCTTTTGTGTTCTGTGATTTGATTTGTCTTGAGTACTCTTCCAGTT 10708
Qy 2873 TATTCACGACGTGACCTGTGATTTAAAGTTGGGGAGGGCTCAGAA--GTATGTTGC 2930
Db 10709 TATTCACGACGTGACCTGTGATTTAAAGTTGGGGAGGGCTCAGAAAGTGTGTTGC 10768
Qy 2921 ATGTATATATTTTAAAGCTGCACTTCACTTAAGGATAGAAAAACCAAAAAA----- 2986
Db 10769 ATGTATATATTTTAAAGCTGCACTTCACTTAAGGATAGAAAAACCAAAAAA----- 10828
Qy 2987 -----TTAAAAATTCAGAAAAATGATTCAC---AAAAAAGAGTTCATGTAGTTCA 3038
Db 10829 AATTTGAAAAATTCAGAAAAATGATTCACAAAAAAGAGTTCATGTAGTTCA 10888
Qy 3039 TTACATTTAGATCAAGTCTAGAGTGTTCATTTAGATTTGTGCATATGCTTAGGGAT 3098
Db 10889 TCACATTTAGATCAAGTCTAGAGTGTTCATTTAGATTTGTGCATATGCTTAGGGAT 10948
Qy 3099 AATGATGATATGAGCTTGTAGCA 3122
Db 10949 GATGATGATATGCTTGTAGCA 10972

RESULT 6
US-10-315-515-124
Sequence 124, Application US/10315515
Publication No. US20030166190A1

GENERAL INFORMATION:
; APPLICANT: Wright, David A.
; APPLICANT: Voytas, Daniel F.
; TITLE OF INVENTION: NUCLEIC ACIDS RELATED TO PLANT
; FILE OF INVENTION: RETROELEMENTS
; FILE REFERENCE: 08411-031001
; CURRENT APPLICATION NUMBER: US/10/315,515
; CURRENT FILING DATE: 2002-12-10
; PRIOR APPLICATION NUMBER: US 60/339,060
; PRIOR FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 168
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 124
; LENGTH: 13320
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-10-315-515-124

Query Match 32.9%; Score 1025.6; DB 16; Length 13320;
Best Local Similarity 68.9%; Pred. No. 3.7e-274;
Matches 1620; Conservative 0; Mismatches 619; Indels 113; Gaps 11;

Qy 825 TTTGCTTTTGGTTTGGCACTATCACTAATTAAGTTATCTTTGAGTTTCGCTGT 884
Db 7962 TGGTTTCATGTGCTATCTTTGAGACCTAATCTATGACATTTGAGTTTGAATCT 8021
Qy 885 TTTAGTTTCATGATGATTAATCACTAGTGAATAATCTCTATGACCCGTATTAATGT 944
Db 8022 CTACGAGAACTATGAGCAATTAACAGTGGCAGTTCTTGTGTGATCCGACTACAACT 8081
Qy 945 GGATGAGCTAAGTCTGTGCTCACTAGACCGAGTGAAGACAATGTTTACGAGACTA 1004
Db 8082 GGATGAGCAGAGTGTGCTATCTTCAAGCCAGAGAGAAAGAGATATGAAAGCT 8141
Qy 1005 TAGGATGATTTGAACGCTCTGCACTGACGTATCAAGAAAGAGCTGAATGCTAG 1064
Db 8142 CAG-----TAGGAAAGCTGAGATAGCCCG 8165
Qy 1065 AGGAAAGAGGCGATGTGAGTATGAGCTGATGAGTATCAAAAGCTGAGTA 1124
Db 8166 AGGAAAGAGGCGATGTGAGTATGAGCTGATGAGTATCAAAAGCTGAGTA 8225

Qy 1125 TGAGCCAGAGTCAATGGCGCAAGAGACGAACCTAATCAAAATCCGACGAGTTACAGT 1184
Db 8226 CATCCCTGAAACAGACTGCAAGAGCTACCAATCTTCAACAGCCAGCATATGCTTAC 8285
Qy 1185 GAGAGATATATCATGATTTCTTTGATGATATGACTTCTGGGGAACGAGTATCCCTGATA 1244
Db 8286 TGAGAAATATTTAGGCTTTTCAAGCTGATGATGATTTCTGAGCAGAGTATCTTCTC 8345
Qy 1245 TGAGACTTTAGCCAGTGGGTTTACGAGAGCGTCAGCATCTGTTCGAAAGTGTCA 1304
Db 8346 GACCTCACTTGCACAACTCGGATTTGTAAGATGTTCAAGACTGTACCAAGTGTGCA 8405
Qy 1305 TCTG-----ATPAGAGAGACAATCGAGTTCT 1333
Db 8406 TCTGCACTCTGTATGCTTATCCGTTATGAGCGTATGAAATAGCAAAATATCT 8465
Qy 1334 TTCCACACTGCAAGTGAATAATGATGAGGAGCTACAGACTTTGAGCTGATACATGAGG 1393
Db 8466 CTCACGCTGCAAGTGAAGCTCTACAAAGTATACCTCTGATGATGATTTGTAAGG 8525
Qy 1394 GTTAGGCTTCTTGAAGTTCTTATGATGAAACAGCGGTAACGAATTTAGATCAAGAAAT 1453
Db 8526 ATGGGATTTCTTGGATTTCTGTGATGCTGATGATATGATATCAATCAAGCAAT 8585
Qy 1454 GGAAGAACTGTTGTTGTTCTTCTAGTGAAGAAAGCAACCCAGTTTGAACAGAGAA 1513
Db 8586 GGAATGATATTTGGCTTCTCTAGTGAACGAATCTAAGGCAAAATGAAAGAA 8645
Qy 1514 GCTTAAGATTTGAGGCTACTATTTGGAAACATCTACCGCTAATCTGACGCGTCCAA 1573
Db 8646 GTTGAAGACTTGTGATGATACCAATTTGGAGCTCTGTACCTGTAATGCTTCCAGTCAA 8705
Qy 1574 GAGCAACCAATTCGAGATCCCTGTGATTCGCTACTTTCAAGGCTCGGTTGCCAATGTTT 1633
Db 8706 GAGCAATCAATGAGAGCCCTGTATCAAGGATCTTCCAGGTTCTATAGCAATGAT 8765
Qy 1634 TTAATCCAGGAGTCTACAGGACCCGTGTCTAACAACAATGATGATGATTTACG 1693
Db 8766 CTACTCC-GAAGATTTACAGGAGCTGATCTGATGATGATGATGATGATGATGATG 8824
Qy 1694 GCTTATGAGGATTTCCGCGCTTACAAAGAAAGATTCCTGAGAGAGATCTTAAACA 1753
Db 8825 CTTCAAGAACTTTCCGCAACTTAAGATGCAATGCTCTTCCAGGTTGAATGATGA 8884
Qy 1754 CTCACACCACTAATGCTCTGTGATTCATCTGTGTGATGATGATGATGATGATGATG 1813
Db 8885 CACACCTCTCTATATCTTCTGTGATTCATCTGTGATGATGATGATGATGATGATG 8944
Qy 1814 AAACGGCAAGAAAGTGAAGAGACATATGCTGTGAGTGGCTGTGACGCCAATCT 1873
Db 8945 CAATTAACCGCAAGAGACAGGCGCTGTGTGATGATGATGATGATGATGATGATG 9004
Qy 1874 GAAAGTTTGTGAGTCCGCTCAAGAAAGTATGAGGTTGCAACCGAATGATGAGCTTGA 1933
Db 9005 GATGCTGTGTGAGTCCCAATCATTTCTGTGAGCTGAGCGCGAGCAATGATGAG 9064
Qy 1934 TCATTTGGCCGATGTGATTTCTGTGATTTGATGATGATGATGATGATGATGATG 1993
Db 9065 GCACTTACGTACATGCAATTTCTGAGATTTGCAATGTTGATGATGATGATGATGATG 9124
Qy 1994 GTTGAGCATTCATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2053
Db 9125 GTTTGAGCATCTTATGAGAGAGATGATGATGATGATGATGATGATGATGATG 9184
Qy 2054 GATTTCTGAGGAGAGAACTTTGATCTTCAACCCGCTGATGATGATGATGATGATG 2113
Db 9185 GATATATAGGAGAGATTAATGATTTTGAAGCTGTGAGGCTGTACCTATGAGAA 9244
Qy 2114 CAGTCCGCACTGAGAGATTTAGTACACCGAAGAGCTCAATATGAGATGATGATG 2173
Db 9245 CGCTCCGCACTTGAATGAGATGATCTTTGAAAGACT-----GCTTGGAGTGG 9295
Qy 2174 GACATATGATATGATGAGGCGAGTTTGAACAGAGATGATGATGATGATGATGATG 2233

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Db      9296 GATGATGAAGATAGGCGGTGAGATTCACACTAGCATGATCATTGTGTGAACATGT 9355
Qy      2234 ACCTCAGAGGAGAAAAGCAAGCTTTGAGCCGAGAGCTCAGAGAAACAAGCAAGCTGA 2293
Db      9356 ACCTCAGAGGAGCAAGAGAGGCTTGACTGAAGCTCAATGAATTAACAGTAATTTGA 9415
Qy      2294 GAATGCTGCAAGAAAAGCAATTAATTCGCGCAAGTGCCTCAGGGCTATCAAGTTCT 2353
Db      9416 GAAGTGTGCAAGAAAGCAAGCAAGCTGATCCCAAGTG-----TTTCAAGTTCT 9466
Qy      2354 GAAGCAAGATCAAGTGTCTCTTCCACTACAACTATTCGCAATGAACAAGTCCCTGA 2413
Db      9467 GACAGATAGTAAGTTGCTCTTCTCCACCACTGCTATTCACAGATCATCTCTCTCT 9526
Qy      2414 GGAATGCTTGTGAGAGATGATGAGC-----GCCGAGCTTGAAGAGAGAA 2461
Db      9527 GGAAGATGCTTGAAGAGATGATGATGATGATGATGATGATGATGATGATGATGATG 9586
Qy      2462 GATTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2521
Db      9587 AGTCCCACTATGCTCAGAGCTTATGATGATGATGATGATGATGATGATGATGATGATG 9646
Qy      2522 GAGAAAGCACTCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2581
Db      9647 GAAAGCAACATCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 9703
Qy      2582 AGCCGACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2641
Db      9704 ACTGACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 9763
Qy      2642 TGCGCGGCAAGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2701
Db      9764 TGCGCGGCAAGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 9822
Qy      2702 CGGTCGCTATGCTTGGAGCAATCAAGAGAGCTTGAATGATGATGATGATGATGATGATGATG 2761
Db      9823 TGCTGCTATAGCTTGGAGCAATCAAGAGAGCTTGAATGATGATGATGATGATGATGATGATG 9882
Qy      2762 ATTGCACTGAGTAAAGCGCTCACTTCACTATTAATTAATTAATTAATTAATTAATTAAT 2821
Db      9883 CTTCACCTGAGTAAAGCGCTCACTTCACTATTAATTAATTAATTAATTAATTAATTAAT 9942
Qy      2822 CTT---TATTTGTTTCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2878
Db      9943 TCTTCATTTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 10002
Qy      2879 CACAGTGAAGTGTGATTAAGTTGGGGAGGGCTCAGAA--GTATGTTGCAATTGTA 2936
Db      10003 CACAGTGAAGTGTGATTAAGTTGGGGAGGGCTTGGAAAGTGTGTGTGATGTTG 10062
Qy      2937 TATATTTTAACTGATTCATCTAAGGCATGAAAAACCAAAAAAATTAATAATTT 2996
Db      10063 TATATTTTAACTGATTCATCTAAGGCATGAAAAACCAAAAAAATTTGAATAATTT 10122
Qy      2997 CAGAAAAGATTTTAC-----AAAAAAGATGTTTCACTGATGATGATGATGATGATGATGATG 3050
Db      10123 CAGAAAAGATTTTCAAAAAAAGATGTTTCACTGATGATGATGATGATGATGATGATGATGATG 10182
Qy      3051 TCAAGTGAAGTGTGATTAAGTTGGTTCATGATGATGATGATGATGATGATGATGATGATG 3110
Db      10183 TCGAGTCTTGAAGTGTGATTAAGTTGGTTCATGATGATGATGATGATGATGATGATGATGATG 10242
Qy      3111 GCCTTGTAAGCA 3122
Db      10243 GCCTTGTAAGCA 10254

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RESULT 7
 US-10-315-515-123
 ; Sequence 123, Application US/10315515
 ; Publication No. US20030166190A1
 ; GENERAL INFORMATION:

```

; APPLICANT: Wright, David A.
; APPLICANT: Voytas, Daniel F.
; TITLE OF INVENTION: NUCLEIC ACIDS RELATED TO PLANT
; TITLE OF INVENTION: RETROELEMENTS
; FILE REFERENCE: 08411-031001
; CURRENT APPLICATION NUMBER: US/10/315,515
; PRIOR FILING DATE: 2002-12-10
; PRIOR APPLICATION NUMBER: US 60/339,060
; NUMBER OF SEQ ID NOS: 168
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 123
; LENGTH: 13868
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-10-315-515-123

Query Match      32.8%; Score 1025.4; DB 16; Length 13868;
Best Local Similarity 69.0%; Pred. No. 4.4e-274;
Matches 1604; Conservative 0; Mismatches 606; Indels 115; Gaps 10;

Qy      847 ACTAATATTTAAGTTATCTTTGAGTTTGTCTGTTTGTGATTCATGATGATGATG 906
Db      8654 ACTAATCTATGACATTTGAGCTTGTGATTTCTTAATCCCTACAGAGAAATCATGAGCAAT 8713
Qy      907 TACAGTGAATTCCTATGAGACCTGATTAATATGAGAGAGTAAAGTAACTAGTCTGCTCC 966
Db      8714 TACAGTGAAGTTCTTGTGATTCCTGATCAATGATGATGATGATGATGATGATGATGATG 8773
Qy      967 ACTAAGCCGAGTGAAGAGCAATGTTTACGAGAGTATAGGATGATGATGATGATGATGATGATG 1026
Db      8774 TCAAGCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 8814
Qy      1027 GCAAGCTCGATTAATCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1086
Db      8815 -----AAGGAAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 8857
Qy      1087 AGATATGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1146
Db      8858 AGATATGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 8917
Qy      1147 GAGAGAAAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1206
Db      8918 GCTACCAAGCTTCTGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 8977
Qy      1207 GAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1266
Db      8978 AGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 9037
Qy      1267 TTAAGTGAAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1308
Db      9038 TTGTTGAAGATGTTTCAAGCACTGTAACAAAGTGTTCATCTGACACTTGAATGAGCTTAT 9097
Qy      1309 -----ATAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 9157
Db      9098 CCGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 9157
Qy      1356 TATGAGGAGCTCAGAGCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1415
Db      9158 TACCAAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 9217
Qy      1416 GTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1475
Db      9218 GTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 9277
Qy      1476 AGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1535
Db      9278 AGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 9328
Qy      1536 ATTGGAACAAATCTAAGCTTAATCTGACGAGCTCAAGAGAGAGAGAGAGAGAGAGAGAGAG 1595
Db      9329 ATTGGAAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 9388

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Db 145 ATGAGAGAGAGTATGAGCTTATGACGAAGATCTGAGAGACGAGTACATGCTTGAACAG 204
 QY 1138 TGGCGAGAGAGAGAGAGTACTGATCAAAATCCGACGAGGTACAGTGGAGAGTATATC 1197
 Db 205 ACTCGAGAGAGCTTCAAACTTCTGACACAGCCGACATATGCTGCTGGAGATATGTT 264
 QY 1198 AGATTCTTGAAGTGAATGACTTCTGGGGAACGAGGTATCCCTGATATGAGACTTTAGCC 1257
 Db 265 AGGCTTTTCAAGCTGATGAGTCTGTGAGACGAGGATCTTGTCTGACCTCAGCTTGA 324
 QY 1258 CAGTTGGGTTTACTGAGAGACGTGACGACTGTGAGAGAGTCTATCTG----- 1308
 Db 325 CAAGCTGGATTTGTTGAGAGATGTTGACGACCTGTACCAAGTGTCTATCTGACACTTGG 384
 QY 1309 -----ATPAGAGAGAGCAATGAGTTTCTTCCACACTGCA 1346
 Db 385 ATGGCTTATCCGATATGATGATGAGATGAGACATACATATCTCTCCACACTACAA 444
 QY 1347 GTGGAATATGATGAGGACTCAGACACTTGTAGCTGATACATGAGGTTAGGCTTTG 1406
 Db 445 GTAGAGCTTCAACAGGATGACCTGTGAGTGTGATTTGAGAGATTGGGATTTG 504
 QY 1407 AGCTTTATGATGATGACACGCGTACAGATTATGATCAAGAAATTGGAAGACTGTT 1466
 Db 505 CGATTTTCTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 564
 QY 1467 GGTTCCTCTAGTGGAAAGGAAACCAACCCAGTTTGAACGGAAGAGCTTAAAGATTG 1526
 Db 565 GATTTTCCAGTGGAAACGAGATCTTAAAGCAAGTATGAAAGAGATTGAAAGACTGG 624
 QY 1527 TGGGCTACTATTTGGAAACAATCTACCGCTTAACTGACGCGGTGCAAGAGCAACAATC 1586
 Db 625 TGATACCAATCGGAGAGCTGTGACGTTGATGATGATGATGATGATGATGATGATGAT 684
 QY 1587 CGAGTCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1646
 Db 685 CGAGAGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 744
 QY 1647 TGTACAGGACCGTGTCTTACACAGACATGATGATGATGATGATGATGATGATGATGAT 1706
 Db 745 ATTACAGGAGCTGTCTTACCTGTGATGATGATGATGATGATGATGATGATGATGAT 804
 QY 1707 CTCGCGCTTACAAAGAGAAAGATGCTGAGAGAGATCTTAAAGACTCAGCAGCAGTA 1766
 Db 805 CTCGCGCAAACTTAAATAGGAGATGCTCTCAGGAGTGAATCAATGACACACTCTCTCT 864
 QY 1767 ATGCTCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1826
 Db 865 ATACTCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 924
 QY 1827 AAGGTAAAGAGAGACTATGCTGAGGCTGCTGATGATGATGATGATGATGATGATGATGAT 1886
 Db 925 AGAGCAGAGGCGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 984
 QY 1887 GTTCCGCTCAAGAGAGAGGTTAGCACGAGATGATGATGATGATGATGATGATGATGATGAT 1946
 Db 985 GTTCCACTACTTCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1044
 QY 1947 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2006
 Db 1045 TGGCAATTCCTGAGATTTGCAATGTTGAGATTTTCAAGAGTTGAGTTGAGACTCT 1104
 QY 2007 TCGATTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2066
 Db 1105 ACAGAGAGAGAGAGTCAATCTCTCTCCAGCTGAGATGATGATGATGATGATGATGATGAT 1164
 QY 2067 AGGAACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2126
 Db 1165 GATTAACATTTATTTAGGCTGAGATTTGAGAGCTCTTACTATGAGAAACGCTCCACACTTA 1224
 QY 2127 GAGAGATTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2186
 Db 1225 GATGAGAGAGATCTTCTTGTAAAGAGT-----GCTTCGATGAGATGATGATGAT 1275

QY 2187 GATGAGCGGAGTTTGAACAGACATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2246
 Db 1276 GAGAGAGTAAAGTTGACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1335
 QY 2247 AAAAGAGAGTTTGAACGAGTCAACAGAGACAGAGAGTCAAGAGTGTGAGAG 2306
 Db 1336 CAGAGAGAGGCTTGAAGCTCAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTA 1395
 QY 2307 AAACAGATTAAGTACTGCGCAAGTCTCAGGCTCAAGTTCTGAAAGAGCAAGATC 2366
 Db 1396 AAGCAGAGAGGCTGATGCGCAAGT-----TTTCAAGCTTCTGAGAGAGAGCTG 1446
 QY 2367 AGCTGCTCTCTTCCACTCACTCACTATGCGATGACAGCTCCCTGAGAGATGCTTCCG 2426
 Db 1447 AGTTGCTCTTCTTCCACTCACTGATTTTCAAGAGTCAACCTCTTATGAGAAAGCCATG 1506
 QY 2427 AGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2474
 Db 1507 AGGAGATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1566
 QY 2475 CTTGCGAGAGTCACTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2534
 Db 1567 CAGGCTAGGCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1626
 QY 2535 ACTGATCTTACAGAGAGAGAGAGAGTCTGAGTCTGATGATGATGATGATGATGATGATGATGAT 2594
 Db 1627 ACTGATCTTACAGAGAGAGAGAGAGTCTGAGTCTGATGATGATGATGATGATGATGATGATGAT 1683
 QY 2595 GCTGCGGAGTAAAGAGAGAGAGAGTCTGAGTCTGAGTCTGATGATGATGATGATGATGATGATGAT 2654
 Db 1684 GCTGCGGAGAGAGAGAGAGAGAGTCTGAGTCTGAGTCTGATGATGATGATGATGATGATGATGAT 1743
 QY 2655 GCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2714
 Db 1744 GCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1803
 QY 2715 GCTTGGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2768
 Db 1804 GCTTGGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1857

RESULT 9

US-10-615-005-24
 ; Sequence 24, Application US/10615005
 ; Publication No. US20040016018A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wright, David A.
 ; APPLICANT: Voytas, Daniel F.
 ; TITLE OF INVENTION: Plant Retroelements and Methods Related Thereto
 ; FILE REFERENCE: F-1065 ISURF Plant Retroelement
 ; CURRENT FILING DATE: 2003-07-08
 ; PRIOR APPLICATION NUMBER: US/10/615,005
 ; PRIOR FILING DATE: 1999-05-28
 ; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/087125
 ; PRIOR FILING DATE: EARLIER FILING DATE: 1998-05-29
 ; SOFTWARE: PatentIn Ver. 2.0
 ; NUMBER OF SEQ ID NOS: 41
 ; SEQ ID NO 24
 ; LENGTH: 1857
 ; TYPE: DNA
 ; ORGANISM: Arabidopsis thaliana
 ; US-10-615-005-24

Query Match 24.1%; Score 751.6; DB 17; Length 1857;
 Best Local Similarity 65.3%; Pred. No. 3.3e-198;
 Matches 1250; Conservative 0; Mismatches 564; Indels 100; Gaps 6;

QY 898 ATGATTAATCACTGAGAAATCTCTATGAGACCTGATTAATATGATGATGATGATGATGATGAT 957
 Db 1 ATGAGCAATTAACAGTGGAGTCTTCTGTTGATCTGATCAACATGATGATGATGATGATGATGAT 60

QY 958 TCCTGCTCACTAGACCGGAGTGAGACAACTGTTTACGAGACTATAGGTAATTT 1017
 Db 61 TCGTATCTTCAAGGCCAGAGAGAACGAGAAATCGAAAGTTTCAG----- 110
 QY 1018 GAACGCTCGAGCTCGACGTAAATCAAGAAAGAGCTGAATGCTTAAAGGAAAGGCG 1077
 Db 111 -----AAGAAAGCTGAGATAGCCCGAAGAAAGAGAGCG 144
 QY 1078 ATGTGAGATAGATAGAGCTGATGATGAGATATCAAACTGATATAGGACCAAGTCA 1137
 Db 145 ATGAGAGAGAGTATAGAGCTTATAGACGAGATCTGAGAGAGAGATACATGCTGAAACG 204
 QY 1138 TGGCCCAAGAGACGAAAGCTACTGAACTAAATCGACGAGTTTACATGAGAGAGTATTC 1197
 Db 205 ACTCCAGAGCTAACCAACTTCTGCACTAGCCGACATATTCCTGCTGAGGAAATATGT 264
 QY 1198 AGATCTTTGAGATGAATGACTTTCGGGGAAGAGGTATCCCTGATATAGACTTTAGCC 1257
 Db 265 AGGCTTTTCAGCTGAATGATGTTCTGTAGACAGAGGATCTTGTGCTGACCTTACCTTGA 324
 QY 1258 CAGTTGGGGTTTACTGAGAGACGTGACGATCTGTTGAGAAAGTGTATCTG----- 1308
 Db 335 CAACCTGGAATGTTGGAAGATGTTGACGACCTGTACCAAAAGTTGTATCTGACACTTGG 384
 QY 1309 -----ATAAGAGAGACATGAGTTCTTTCCACTGCA 1346
 Db 385 ATGCTTATCCGTATAGTATGACATATGAAATGAGACAAATCAATTCCTCTCCACACTACA 444
 QY 1347 GTGGAATGATAGAGGACTCAGACTTTGAGCTGAGATACATGAGGGTTAGGCTTCTTG 1406
 Db 445 GTAGAGCTTACCAAGTATGACTCTGTAGATGATGATGAGAGATGGGATTCG 504
 QY 1407 ACGTTCTTAGTGAATGAACGCGGTACAGATTTAGATCAAGAAATTTGGAAGACTGTTT 1466
 Db 505 CGATTTCTGTGTATGTGTATAGATGACAGTTATCAATCAACGATGGAAGATTTGTT 564
 QY 1467 GGTTCCTCTAGTGAAGGAAACCAACCCAGGTTTGACAGGAAAGCTTAAAGATTG 1526
 Db 565 GATTTTCCAGATGGAACGGGATCTAAGCCAAAGTATGAAGAAAGATGGAAGACTTG 624
 QY 1527 TGGGCTATATTTGGGAACAAATCTACCGCTAACTGACCGGCTCCAAAGGAAACCAATC 1586
 Db 635 TGGATCACCATGCGGACTGTGATACCGTTGAATGCTTCAAGGTCAAAAGCAATCAGATA 684
 QY 1587 CGGAGTCTGTGATTCGCTACTTTCAGCGCTCGGTTGCCAATGTTTCTTCAAGGAG 1646
 Db 685 CGGAGCCCTGTATCAGGATCTTCCAGCGTTCTGTAGCCAAAGTACTTACTCCGAGAG 744
 QY 1647 TCTACAGGACCGGTGTCTAACAAGACATGAAGATGATGATTTCAAGCGTTTAAAGGATT 1706
 Db 745 ATTACAGGGACTGTCACTAATCTGTATGAGATGATGCAATGCGCAATGCGCTCAAGGA 804
 QY 1707 CTCGCGCTTACAAAAGAAAGATGCTCTGAGAGAGATCTTAAAGACTCACCAAGTA 1766
 Db 805 CTCGCGCAAACTAAAGATGCAATGTCCTTCCAGGGGGAAGTCAATGACACACTTCTCT 864
 QY 1767 ATGCTCTGTGATCCATCTGTGTGGGTACATGAAGTGGCGCTGCAAAAGCGCAAGAG 1826
 Db 865 ATACTTCTTCTATCATCTGTGTGATACAAAAATGGGCGGTGCAATTAACCGCAAG 924
 QY 1827 AAGTAAAGAGACCTATGCGTGGGTGCGTTGTGAGCCCAATTTCTGAAAGTTTGTGA 1886
 Db 925 AAGAGACGAGGGCGCTGTGCAATGAGGTGCGTGTGACACTATTTCTGATGAGCTTGTGA 984
 QY 1887 GTTCCGCTAAAGAAATAGGTTTGAACCGAAGATATGACTTGTGATCACTTGGCCGA 1946
 Db 985 GTTCCACTATTTCTGCTGAGACTCGAGCGCAAGCAATGGAATATCAGAGACCTTACGTAC 1044
 QY 1947 TGTGATTTCTGAGTTTGAAGTGGGCACTTTACCGCTTACAGGTTTCTGAGCAATTA 2006
 Db 1045 TGTGCAATTTCTGAGATTTGCAATGTTGAGATTTTCAAGGTTTCAAGGTTTGGACACTCT 1104
 QY 2007 TGTGATTAAGTGGCAACATTTCTTTCCTGTGATTAAGCTACTAGATTTCTGAGGCG 2066

Db 1105 ACAGACAGAGAGTAACTATCTTCTCTAGCCCTGAGGTCACAGATATATGAGGGA 1164
 QY 2067 AGGAATTTGACTTCAAGCCCTGCGCTTGAAGATCTTTATTTGAGGGCAGTCCGCCAAT 2126
 Db 1165 GATTAATGATTTTATGAGGCTGATGATTTGAGAGGCTCTTACTATGAAAGCTTCAACTTA 1224
 QY 2127 GAGGATTTAGTCAACCGAAGAGCTAACATTAAGATGTTGATGAGATATATTA 2186
 Db 1225 GATGAGGACGATCTTCTTGAAGAACT-----GCTTGAGATGGGATGAGTGAAGAT 1275
 QY 2187 GATGAGGGGATTTGACACGAGATATATGATTTTACGTAGGCAATATCTTCCAGCGAG 2246
 Db 1276 GGAGAGTAAAGTTTGCACATGAGATGATCACTTGTGTAACATGATCTTCCAGCGAG 1335
 QY 2247 AAAACAGAGTTTGAAGGAGCTCAGAGAACAGCAACAGCAAGCTGACGAATGCTGCAAG 2306
 Db 1336 CAGACAAAGAGCTTGAAGTCAATGAGATTAAGATTAATTTGCAAGATGCTGCAAG 1395
 QY 2307 AAACAGATTAAGTACTGCGCAAGTCTCAGGCTATCAAGTTTCTGAAAGCAAGATC 2366
 Db 1396 AAGCAGACAGGCTGATGCGCAAGTG-----TTTCAAGCTTGTGACAGACAAGCTG 1446
 QY 2367 AGCTGCTCTCTTCCACTACAACTATTCGGAATGACAGCTCCCTCAGAGATGCTTGG 2426
 Db 1447 AGTGTCTTCTTCCACACATGATTCACAGAGTAACTCTTATGAAATGCAATCG 1506
 QY 2427 AGGAGATATGACG-----GCCGAGCTGAGAGACAGAAAGATTTCTGATGTC 2474
 Db 1507 AGGAGATTAATGACACCTGCGCACAGGCTGTAGCTTACGAGCAGAGAGTCCCAATGTC 1566
 QY 2475 CTTGAGGACATTCATCTTGTAGCTTGTGATCTGATCTTGAAGAAATGAGAAACGACTC 2534
 Db 1567 CAGGCTAGGCAATGCTCATTTGAAATCCCGGAAACAAAGAAAGAAAGGCTTACACTC 1626
 QY 2535 ACTGATTTAGCAGAGAGACAGACTTGTGAGTCTGTAATTTACGAGCCGCGT 2594
 Db 1627 ACTGATCTTACAGG---AGATACGCGCTCATTTCACTGAGAGAAATCACTGACCGTGT 1683
 QY 2595 GCTGCGCAATTAAGAAAGAGAGGTGAGTATCTTCAAGCGGCTGCGCACAG 2654
 Db 1684 GCTGCGCAGCAGAGAGAGATGATGAGATTTCTTCAAGCGGCTGCGCACAG 1743
 QY 2655 GCTGATGATGATGATGATCCCATGCTGAGCTGATGAGAAATGCGGCTTGTATG 2714
 Db 1744 GCTGATGAGTGTGATGATCCATGCTGAGCTGATGATGATGATGATGATGATGATG 1803
 QY 2715 GCTTGGAGCAATCAGGCGGCACTTGAATCAATCAATCTTCTTATTTGAC 2768
 Db 1804 GCTTGGAGCAATCAGGCGGCACTTGAATCAATCAATCTTCTTCTGAC 1857

RESULT 10
 US-10-395-607-24
 ; Sequence 24, Application US/10395607
 ; Publication No. US20040019928A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wright, David A.
 ; APPLICANT: Voytas, Daniel F.
 ; TITLE OF INVENTION: Plant Retroelements and Methods Related
 ; FILE REFERENCE: 08411/036001
 ; CURRENT APPLICATION NUMBER: US/10/395,607
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: 09/586,106
 ; PRIOR FILING DATE: 2000-06-02
 ; PRIOR APPLICATION NUMBER: 09/322,478
 ; PRIOR FILING DATE: 1999-05-28
 ; PRIOR APPLICATION NUMBER: 60/087,125
 ; PRIOR FILING DATE: 1998-05-29
 ; NUMBER OF SEQ ID NOS: 200
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 24

LENGTH: 1857
 TYPE: DNA
 ORGANISM: Arabidopsis thaliana
 US-10-395-607-24

Query Match 24.1%; Score 751.6; DB 17; Length 1857;
 Best Local Similarity 65.3%; Pred. No. 3.3e-198;
 Matches 1250; Conservative 0; Mismatches 564; Indels 100; Gaps 6;

898 ATGAGTAATCTACAGTGGAAAAATCTCTATGACCCCTGATTATATGATGATGAGTAA 957
 1 ATGAGCAATTTACAGTGGCAAGTTCTTCTGTGATCTGACTACCAATGATGAGAGAGA 60
 958 TCTGCTCCATACAGCCGAGTGAAGAGCAATGTTTACAGAGCTATAGGATGATTT 1017
 61 TGTGATCTTCAAGGCCAGAGAGAGAGAGAGATACGAAGTTTCAAG----- 110
 1018 GAACGCTTGACAGCTGACGTATCAAGAGAGCTGAATGCTGATGAGAGAGAGGCG 1077
 111 -----AGGAAAGCTGAGATAGCCGAGAAAGAGAGCG 144
 1078 ATGTGAGTATGATATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1137
 145 ATGAGAGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 204
 1138 TGGCGCAAG 1197
 205 ACTCGAGAGCTACCAACTTCTGCAAGCCGCAATTTGCTGCTGAGATATGTT 264
 1198 AGATCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1257
 265 AGGCTTTTCAAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 324
 1258 CAGTTGGGTTACTGAG 1308
 325 CAACCTCGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 384
 1309 -----ATAG 1346
 385 ATGGCTTATCCGATATGATGATGATGATGATGATGATGATGATGATGATGATGATG 444
 1347 GTGGAATGTATGAG 1406
 445 GTAGAGCTTACCAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 504
 1407 AGCTTCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1466
 505 CGATTTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 564
 1467 GGTTCCTCTATGAG 1526
 565 GATTTTCCAGTGAAG 624
 1527 TGGGCTACTATGAG 1586
 625 TGGATCATCATGAG 684
 1587 CGAGTCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1646
 685 CCAGCCCTGTATCAGGTACTTCCAGCCCTGTGATGATGATGATGATGATGATGATG 744
 1647 TCTACAG 1706
 745 ATTACAG 804
 1707 CTCGCGCTTACAAAG 1766
 805 CTCGCGCAAACTTAAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 864
 1767 ATGCTCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1826
 865 ATACTCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 924

QY 1827 AAGTAAG 1886
 DB 925 AAG 984
 QY 1887 GTTCCGCTCAAG 1946
 DB 985 GTTCCGCTCAAG 1044
 QY 1947 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2006
 DB 1045 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1104
 QY 2007 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2066
 DB 1105 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1164
 QY 2067 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2126
 DB 1165 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1224
 QY 2127 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2186
 DB 1225 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1275
 QY 2187 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2246
 DB 1276 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1335
 QY 2247 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2306
 DB 1336 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1395
 QY 2307 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2366
 DB 1396 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1446
 QY 2367 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2426
 DB 1447 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1506
 QY 2427 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2474
 DB 1507 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1566
 QY 2475 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2534
 DB 1567 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1626
 QY 2535 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2594
 DB 1627 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1683
 QY 2595 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2654
 DB 1684 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1743
 QY 2655 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2714
 DB 1744 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1803
 QY 2715 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2768
 DB 1804 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1857

RESULT 11
 US-10-799-870-24
 ; Sequence 24, Application US/10799870
 ; Publication No. US20040158888A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wright, David A.
 ; APPLICANT: Voytes, Daniel F.
 ; TITLE OF INVENTION: PLANT RETROBLEMENTS AND METHODS RELATED THERETO

FILE REFERENCE: P-1065A
CURRENT APPLICATION NUMBER: US/10/799,870
CURRENT FILING DATE: 2004-03-12
PRIOR APPLICATION NUMBER: US/09/586,106
PRIOR FILING DATE: 2003-02-07
PRIOR APPLICATION NUMBER: 60/087,125
PRIOR FILING DATE: 1998-05-29
PRIOR APPLICATION NUMBER: 09/322,478
PRIOR FILING DATE: 1999-05-28
NUMBER OF SEQ ID NOS: 190
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 24
LENGTH: 1857
TYPE: DNA
ORGANISM: Arabidopsis thaliana
US-10-799-870-24

Query Match 24.1%; Score 751.6; DB 19; Length 1857;
Best Local Similarity 65.3%; Pred. No. 3.3e-198;
Matches 1250; Conservative 0; Mismatches 564; Indels 100; Gaps 6;

QY 898 ATGAGTAACACAGTGAAGAAATCCTCTATGACCCGATTAATATGATGAGCTAAG 957
DB 1 ATGAGCAATTACAGTGGCAGTCTTCTGTTGATCCTGACTACAAATGATGAGCAGAA 60
QY 958 TCCTGCTCACTAAGCCGAGTGAAGCAACATGTTTACGAGAGCTATAGGATGAATT 1017
DB 61 TCGATCATCTTCAAGGCCAGAGAGAGAACAGAGAAATACGAAAGTTTCAG----- 110
QY 1018 GAAGCTCTGCAGCTGCAGTATCAAAAGAGCTGAATTCGCTAGAGAGAAAGGCG 1077
DB 111 -----MAGAAAGCTGAGATGAGCCCGAGAAAGAGAGCG 144
QY 1078 ATGCGAGTATGATGAGCTGATGATGAGATATCAAAATGAGTATGAGCCAGAGTCA 1137
DB 145 ATGAGAGAGAGTATGAGCTTATAGACGAATCTGAGAGACGAGTACATGCTTGAACG 204
QY 1138 TGGCGCAAGAGACGAAGCTACTGAAACAATCCGAGAGTTTCAATGAGAGATATTC 1197
DB 205 ACTCGCAGAGCTACCAAACTTCTGCACAAAGCCGACATATTCCTGCTGAGGATATGTT 264
QY 1198 AGATCTTGAATGAATGACTTCTGAGGAGACGAGATATCCCTGATATGAGCTTTAGCC 1257
DB 265 AGGCTTTTCAAGCTAATGAGTCTGAGCAGAGATATCTTGTCTGCACTCCTTGA 324
QY 1258 CAGTTGGGTTACTGAGAGACGTGACGATCTGTTGAGAGATGTCATCTG----- 1308
DB 325 CAACTCGATTTGTGAGAGATTTGAGCCTGTACCAAAAGTTGATCTGAGACACTTGG 384
QY 1309 -----ATAAGAGAGACAAATGAGATTTCTTTCACACTGCA 1346
DB 385 ATGCGTATCCGTATGATAGCATATGAAATGAGAAATCAATTCCTCCACACTACAA 444
QY 1347 GTGGAATATGATGAGGACTCACAAGCTTGAAGCTGATATCAATGAGGCTTTCTTGG 1406
DB 445 GTAGAGCTCTACCAAGGTATGACCTCTGATGATGATTTGAAAGATTTGGATCTTGG 504
QY 1407 AGGTTCTTATGATGAGACAGGAGTACAGATTTTATGATCAAGAAATTTGGAAGACTTT 1466
DB 505 CGATTTTCTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 564
QY 1467 GGTTCCTCTAGTGAAGAGGAACCAACCCAGGTTTGAAGGAGAGGCTTAAGATTTG 1526
DB 565 GATTTTCCAGTGAAGAGGAGCTTAAGCAAAAGTATGAAAGAGATTTGAAAGCTTGG 624
QY 1527 TGGGCTACTATTTGGAACATCTACCGCTAAACTGACGCGGCTCAAGAGCAACCAATC 1586
DB 625 TGGATCACCATGAGGAGCTCTGATACGTTGAATGCTTCCAGAGTCAAAAGGACATCAGA 684
QY 1587 CGAGGCTCGTATGCTACTTTCAGGCTCGGTTGCAATGTTTTCACCGAGGAG 1646
DB 685 CGAGGCTCGTATGCTACTTTCAGGCTCGGTTGCAATGTTTTCACCGAGGAG 744

QY 1647 TCTACAGGACCCGTCTTAACACAGACATGAAGATGATGATTTACGCGCTTATAGGATT 1706
DB 745 ATTACAGGAGACTGTACATTAATCTGATATGAGATGATGATGATGATGATGATGATGAT 804
QY 1707 CTCGCGCTTACAAAGGAAGAAATGTCCTGAGAGAGATCTTAAAGCACTACCAAGCACTA 1766
DB 805 CTCGCGCAAACTTAAATGGAATGTCCTTCCAGAGTGAAGTCAATGACACACCTCTCTCT 864
QY 1767 ATGCTCTGTGATCACTGT 1826
DB 865 ATACTTCTTGTATTCATCTGT 924
QY 1827 AAGGTAAAGAGACATATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1886
DB 925 AGAGACAGAGCGCTGT 984
QY 1887 GTTCGCGCTCAAGGAAGTATGAGGTTAGACCGAGAAATGATGATGATGATGATGATGATGAT 1946
DB 985 GTCCACTCATTTTCTGT 1044
QY 1947 TGTGATTTCTGTGATTTGACATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2006
DB 1045 TGGCAATTCGTGAGTTTGAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1104
QY 2007 TCGATTAAGATCGCAACATTTCTTTCCTGTGATTTACGCTACTAGATTTCTGAGAGC 2066
DB 1105 ACAGACAGAGAGCTTACATCTTCTCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAG 1164
QY 2067 AAGAAATTTGACTTCAAGCGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAG 2126
DB 1165 GATTAATGATTTTGTGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1224
QY 2127 GAGGATTTAGTCAACCGAGAGGCTTACAAATGAGATTTGATGAGACATATGATATTA 2186
DB 1225 GATGAGACGATCTTCTTGAAGAGCT-----GTTGAGATGAGATGATGATGATGAT 1275
QY 2187 GATGAGCGGAGTTTGAACAGACATGATATATTTCAATGAGATTTCTTCTGAGAGG 2246
DB 1276 GAGAGATTAAGTTTGAACATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1335
QY 2247 AAAAGCAAGTTTGAAGAGCTCAACAGAAACAACAGAGCTGAGAGAGTGTGCAAG 2306
DB 1336 CAGACCAAGACTTGAATGAGCTTCAATGAATTAAGATTAATGAGAGATGATGATGATGAT 1395
QY 2307 AAAAGCAATTAATTTCTGCAAGGCTTCAAGGCTTCAAGGCTTCAAGGCTTCAAGGCTTCA 2366
DB 1396 AAGCAGAGACAGGCTGATGCAAGG-----TTTCAAGGCTTCAAGCAGACAGAGCTG 1446
QY 2367 AGCTGCTCTCTTCACTAACAATTTCCGAATGACAGCTCCCTCAGAGACATGCTTGG 2426
DB 1447 AGTGTCTCTCTCCACACATGCTAATTCACAGGATCAAACTCTATGGAATGCAATCG 1506
QY 2427 AAGGATATGAGCG-----GCCGAGGCTGAGAGCAAGAAATTTCTGATGTC 2474
DB 1507 AAGGAATTAATGACCTGCGCAAGGCTTGAAGCTTGAAGGAGAGAGTCCACATGTC 1566
QY 2475 CCGGAGGCAATTCATCTTGAAGCTGATGATGATGATGATGATGATGATGATGATGATGAT 2534
DB 1567 CAGGCTAGCATTTGCTATTTGGAATCCCGGAAACAAGAGAAAGAGGATCACTC 1626
QY 2535 ACTGATTTAGACAGAGAGACGACTTTCGAGTCTGTATGTTTACGAGCCGCGT 2594
DB 1627 ACTGATTTAGACG-----AGATACGCGCTTCACTGAGAGAGATCACTGAGCGGTGT 1683
QY 2595 GCTGCGCAGATTAAGAAAGAGAGTGTGAGATTTCTGAGAGGCTGCGCGCAGAGA 2654
DB 1684 GCTGCGCAGAGAGAGAGAGATGTGAGTTTCTGAGAGGCTGCGCGCAGAGA 1743
QY 2655 GCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2714
DB 1744 GCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1803
QY 2715 GCTTGGAGCAATCACAGGACGCAATTTGATCAACAACTTCTTATTTGAGC 2768

Db 1804 GCCTGGAGCATTCGAGGCGACGATTCAGGACAACTAGCTTCATCTTCGAC 1857

RESULT 12

US-10-193-002-323

; Sequence 323, Application US/10193002

; Publication No. US20030135026A1

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skeiky, Yasir A.W.

Dillon, Davin C.

Campos-Neto, Antonia

Houghton, Raymond

Veddzik, Thomas S.

Iwazdzik, Daniel R.

Lodes, Michael J.

Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF

TUBERCULOSIS

NUMBER OF SEQUENCES: 350

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/193,002

FILING DATE: 10-Jul-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/072,596

FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:

NAME: Maki, David J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 210121.417C9

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 323:

SEQUENCE CHARACTERISTICS:

LENGTH: 1166 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: Genomic DNA

SEQUENCE DESCRIPTION: SEQ ID NO: 323:

US-10-193-002-323

Query Match 2.0%; Score 63.8; DB 15; Length 1166;

Best Local Similarity 26.7%; Pred. No. 2,2e-06;

Matches 190; Conservative 136; Mismatches 384; Indels 1; Gaps 1;

Qy 2 TCATATATTCGACCTCTTCTTCATCTTCGATCCAAAAGACACAAACGCCGCATCG 61
Db 373 KSAAMTSMAGGISTYCTMTYCNNGASTAMTYNMCSCCGWAVCKSWAYCCCTCGTCA 432
Qy 62 CTTTCCTCACAACCTCCTCAGCAGCCGCCGCTCTCTCACTTCTCGGCTTCATCGC 121
Db 433 TTCGTCGCGGSGCTCTCAGACCTTCGATGATTCGATTCGATTCGATTCGATTCG 492
Qy 122 TCTCATGCGCATCTTCATCATATCATGACCTTCGATTCGATTCGATTCGATTCG 181
Db 493 TTTTMMCCSCNCRVYTCAMCNCCTKSGKACCAATVYCSAGCHCTCTCNCACAKMT 552

Qy 182 ACCGCTCTTCATCTGTCACCGGCTCTCTCTCTTCGAGAAACATCGAGCTCTCA 241
Db 553 TCCCTGNCCTYTNNCAMCSCCTCTTTCMAATCTCCCGGCTCKGNCYCTCTCKCAV 612

Qy 242 TTTCACTACCTGACCTCTTACCAAGGCGGCTTACCACTTTAGCTTTAAGCACTC 301
Db 613 NNAACCKTTCYCWCMYCTMYCKCKAGYKXMTCTCMACTCTMTYTTCTCTCNKCCCM 672

Qy 302 GACCACTTCACCATCAACCAATCAAAATGCTTTCTCTCCATTAAGCTTGACATCTC 361
Db 673 KACCKNTTCTCWSGCCCCCAKAKYMYCAMCTTTCCTCAGSCCCCTTCNNYCNMNM 732

Qy 362 GACCGCTGAACACTTATCACTTCAAGCTCTCATCTCTTCACTGTTTCAACACCGCTG 421
Db 733 CWCMTCTCMTNNAKCANCTTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 792

Qy 422 CTCTCATCCCCACGAAAGCTTGTATCACTCTCTCATCATCAACAGTTCACTGATTA 481
Db 793 TTKKCKMTCTCTCTMKCKCYMMCNCTCKMKNCCCTCCNMTCTCTCTCNMRYCY 852

Qy 482 GGAACCAACTGAGCTGCTCTCTGCACTCAATGACATCGATCTCTCTCAACA- 540
Db 853 YAKAKACNMCTGCCANMKAKCTKCTCCCAKMKSCNCKCCWCCCTCTATCTCWC 912

Qy 541 TCTTCATCATCTCCCTTACTGACCAACGCTGCTCTGCTCAACCATTTAAAG 600
Db 913 TCTCMTATCTCTCTCTCTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 972

Qy 601 CTCACCTCATCT 660
Db 973 NCTCMTCACT 1032

Qy 661 CCCTTACACATTCACACTGACCAACGCTGCTGCTGCTGCTGCTGCTGCTGCTG 711
Db 1033 CTCGMMKMTCCCMCCCATCTMKNSTCTCNCMTCTCTCTCTCTCTCTCTCTCT 1083

RESULT 13

US-10-084-843-328

; Sequence 328, Application US/10084843

; Publication No. US20030143243A1

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

Skeiky, Yasir A.W.

Dillon, Davin C.

Campos-Neto, Antonio

Houghton, Raymond

Veddzik, Thomas S.

Iwazdzik, Daniel R.

Lodes, Michael J.

Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY

AND DIAGNOSIS OF TUBERCULOSIS

NUMBER OF SEQUENCES: 355

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/084,843

FILING DATE: 25-Feb-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/072,967

FILING DATE: 05-MAY-1998

```

ATTORNEY/AGENT INFORMATION:
NAME: Mark J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4960
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 328:
SEQUENCE CHARACTERISTICS:
LENGTH: 1166 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
SEQUENCE DESCRIPTION: SEQ ID NO: 328
US-10-084-843-328

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Query Match 2.0%; Score 63.8; DB 15; Length 1166;
Best Local Similarity 26.7%; Pred. No. 2.2e-06;
Matches 190; Conservative 136; Mismatches 384; Indels 1; Gaps 1

OY	2	TCATATATTCGACCTCTTCTCTCAATTCGTGATCATCAAAAGACACAACAAGCGGCATG	61
Db	373	KSAAMTSMKMGSTSTYCTMTYCNMNGASTAMTYNNCCCCGGWAKCSMAYYCCCTGTCA	432
OY	62	CTTTCCTTCACACATCTCTACCTGACCAACGCCCGCTCTCTCACTTAAGGCTCATCGC	121
Db	433	TYCCMCGSGSAGCCTGAMNCCACCTYTGNGYYYCCCTCCMKMTYCAAYTTMMTCGGTWC	492
OY	122	TCTCATGCGCATCTCTCAACATATCTGACCTGGCGATATCACTGAGCTGCGCGCTTCTC	181
Db	493	TNTMNNCCCSGCKRCTGAMCKNTSGKCAACGATMYCCSACKCHTCTMCWCSAKMNT	552
OY	182	ACCGCTCTCATCGTCAACGCGCTGCTCCCTCTCTTCAAGAAACAATCGAGCTTCTCA	241
Db	553	TCCCCTCNCCTYTNMNCAMCMSCCTMTMMAACTCKCCGGYCKXCNMYCTCTCKCAY	612
OY	242	TTTCACTGACGACCTGTGACCAACAAGCGGCGCTTCAACACTTGAAGCTTAAACATGC	301
Db	613	NMAACCKRTYCYWCMWYCTMYCKCKOAGYKMMCTTCMACTCMYTTTCTCTCNKCCM	672
OY	302	GACCACTTTCACATCAACCAATCAAAATGTTTCTCTCATTTAAAGCTTGACATATC	361
Db	673	KACCKNTTCTCMGSCGCCCCCAKAYMCMYAMGMTMTCMCTCKASCCGYCYNNYCNMM	732
OY	362	GACGCTGAACATTAATCAACCTTCAAGCTCTCATCTTTATTCGTTTCAACAACGCTG	421
Db	733	CMCMTCWCTMAKCANCNITTCTTCTCTCMYMTMAKCKMNNYCNCKSGACCYTCTCAC	792
OY	422	CTCTATCCCCCAGAGAAAGCTGTATCACTCTGACTCATACACAGTTCACTCGATTCA	481
Db	793	TKMKCKMTCTCTTMCCKCYMMNCTCMKYNCCCTCMNTGMTCTCTCKCNMRXY	852
OY	482	GCAACCAAACTGACCTGCTCTCTTGGCACTCATATGACTCGATCTCTCTCCACA-	540
Db	853	YYAKCAKCMCTCCCCANMKCAKTKTCCCCCAKMSAKNCKGCCCMCCCTCTTACMC	912
OY	541	TCTTATCATCTCCCTTAAGTGAACACCGGTGCTCGCTCAACCATTCGATTTAAAG	600
Db	913	TCTCCTATCTCTCKTCTCMCNCTCMYMMCAKCKCYATYMACTMNNMNCANNCCTCTCT	972
OY	601	CTCACTCGATTGTCAAAGAAAGAGTGAAGCTCAACACACGACACTGACCGGCTT	660
Db	973	NYCTCMKACGYIKCKCKTMCCKNYMNCRMCTYRCCTCKKCNCRANKNMCKMTCT	1033
OY	661	CCCTTAACAANTTAACACTGACACAGGTGTACATCTTCAACACCCGCT	711
Db	1033	CTCCMKMTCCCMCCCATCTMMSKSTCTCMCNMTCTCTCNKCCYNTATKY	1083

Publication No. US20050136069A1
GENERAL INFORMATION:

GENERAL INFORMATION:
APPLICANT: Reed

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355

	Query Match	2.0%;	Score 63.8;	DB 24;	Length 1166;
	Best Local Similarity	26.7%;	Pred. No. 2.2e+06;		
	Matches 190;	Conservative 136;	Mismatches 384;	Indels 1;	Gaps 1
OY	2	TCATATATATGACCTCTTCTTCTCATTTCTTGCATCCAAAGACACACA	CAGAGCGGCATCG	61	
Db	373	KSAMTSMKMGSTGYCTMTYCNNAGASTATYNNCCCCCWAYEKS	CMAYCCCTCGTCA	432	
OY	62	CTTTCCTCCCAACAATCTCTCATCGACACCGCGCGCTCTCATCTACT	CGGCTTCATGCG	121	
Db	433	TYCCMCMSSSGYCTCATMNCACCTYNGTYCCCTCCMRTYCAITCMATC	CGGTWCC	492	
OY	122	TCCTATGCGCATCTCTCAACATCTCGACCTCGCGATTCACCTGAGCT	CGCGCTTCTC	181	
Db	493	TNTMMNCCCSGNCRCYTCAMCNCYKSGKCA	CNAITMCSAKCHTCTMTCWCS	552	
OY	182	ACCGCTCTTCATGTCATCGACGCGCTGCTCCCTCTCTCCAAAGAAACA	CTCGAGCTCTGCA	241	
Db	553	TCCCTCCTCCTYTNMCCAMCMCSCTCTTMAA	CTCKCCGSGCKCNMRYCTCTCKCAY	612	
OY	242	TTTGACTCATCTGACCTCTTACACACCAAGCGGCTTGACACACTT	CTTAGCTCTTAACCATTC	301	

Db 613 NMAACCKTTCYVWYCNMYCKKCAKAGWYKNNCTCMACTCTMYNTTCTCTCNKCCCM 672
Qy 302 GAGCACCCTTCACCATCAACAAATCAATGTTTCTTCCTCCATTAAGCTTGACATATCTC 361
Db 673 KACGKNTTCTCWCSCCCCAKAYCAYAMCMYTCCTCCTCAGSCCCYCNMYCNM 732
Qy 362 GACCGGTGAACACTTATCACTCAAGCTCTCATCTCATCTGTTTCCACACGCTG 421
Db 733 CMCMTCTMNAKCANCTTCTCTCTCMYTMACKCMCNANTCNCKSAACCTTCTCAG 792
Qy 422 CTCTATCCCCCAAGAAAGCTGTCTCACTCTCACTCACTCACTCACTCACTCACTCA 481
Db 793 TTKKCKMTCTCTTCT 852
Qy 482 GCAACAAACTGCACT 540
Db 853 YAKCAKCMCTCCCAKAYCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 912
Qy 541 TCTTCATCT 600
Db 913 TCT 972
Qy 601 CTCCT 660
Db 973 NYCTCCKAGTCT 1032
Qy 661 CCTCTCACT 711
Db 1033 CTCCKMKTCTCCWCCCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1083

RESULT 15

US-10-437-963-28390
; Sequence 28390, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 28390
; LENGTH: 862
; TYPE: DNA
; ORGANISM: Oryza sativa
; NAME/KEY: unsure
; LOCATION: (1)..(862)
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_32955C.1
US-10-437-963-28390

Query Match 2.0%; Score 62; DB 19; Length 862;
Best Local Similarity 44.3%; Pred. No. 5.8e-06;
Matches 239; Conservative 0; Mismatches 300; Indels 0; Gaps 0;

Qy 53 CCGCCATCGCTTCTCTCAAACTCTCACTGACACCGCGCTCTCTCACTTACTCGG 112
Db 298 CC 357
Qy 113 CTTGATCGCTCTGATGCGCATCTCTCAACATCTGACCTGCGATATCACTGAGCTCG 172

Db 358 CTCCKNCCCCCCCCCCCCCAACCTCTCCCTTTCCCTCCCCCCCCCCCCCCCCCTCC 417
Qy 173 CCGCTTCTACGAGCTCTCTCATGTCATGTCACGCGCTGCTCCCTCTCTCAAGAAACAACTCG 232
Db 418 TCCCCACCT 477
Qy 233 AGCTTCATTTTCACTCACTGACCTCTTACACAAAGCGGCTTCAACACTTACTGCTT 292
Db 478 NCCC 537
Qy 293 TAACTGACGACCTTCAACATCAACATCAAAATCGTTTTCTCTCTCATTAAGCTT 352
Db 538 CTCCTCCCCCCCCCTTCT 597
Qy 353 GACATCTGACCGGCGAACAATATACCTTCAAGCTCTCTCACTCTCTCTCTCTCTCTCTCT 412
Db 598 CCGCT 657
Qy 413 ACACGCTGCTCTCATCTCTCTCAAGAAAGCTGTCTCATCACTCTCACTCACTCACTCA 472
Db 658 CC 717
Qy 473 CTGATTCAGAACAACTGACCTGCTCTCTCTGCACTCATATGTCATCTGATCTCT 532
Db 718 CTNTCCCCCCCCCCCCCT 777
Qy 533 CCTCAGCATCTTTCATCT 591
Db 778 CTCCT 836

Search completed: July 22, 2005, 07:07:33
Job time : 5582 secs

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